

# AUT

TE WĀNANGA ARONUI  
O TĀMAKI MAKAU RAU

ART &  
LEX  
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NOY  
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REASON

DESIGN & CREATIVE TECHNOLOGIES  
**RESEARCH REVIEW 2016**  
TE ARA AUHAHA





## FROM THE DEAN

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Tēnā koutou

It is my pleasure to bring you this fifth edition of the magazine *τεχνη & λογός* profiling the research of the Faculty of Design and Creative Technologies during the year 2016. The Faculty houses the Schools of Art & Design, Communication Studies, and a large combined school of Engineering, Computer and Mathematical Sciences. Complementing this range of disciplines, is Colab as a combined research and teaching unit with a focus on Creative Technologies, and a transdisciplinary and collaborative approach to its activities.

2016 was a transitional year for the Faculty with the retirement of the previous Dean Professor Desna Jury, and Professor Philip Sallis carrying the Faculty through to my appointment in mid-2017 as incoming Dean. So with this review I have a chance to take stock of some of the excellent work that has been carried out prior to my arrival, and look to build on this base to continue to realise the remarkable potential of this co-located group of disciplines. The diversity of the Faculty is evident in the research achievements profiled in this review, but as an entity the Faculty exists to be more than the sum of its parts. It aims to generate a distinctive fusion of creative disciplines through research, teaching and practice, and by so doing to make a global and local impact on the communities and professions which we serve.

Spaces and places are strong themes woven into the research presented here. The local and global, indigenous and Pacific, carvings and waterways, medical devices and airways, sit alongside islands of data probed by the sciences of the artificial, and ventures into the stars, detecting pulsars

and Fast Radio Bursts to be reported in Nature. The theme of this edition draws on the work "Future Islands" presented at the Venice Biennale last year. It picks up on the work of the noted Pacific Scholar Epeli Hau'ofa depicting the Pacific as not just a set of fragile island entities, in colonially defined and bounded nation states, but as an interconnected "sea of islands", with voyagers moving freely between them long before globalization became topical. The Faculty aims to reproduce this sense of interconnection and free movement between and across the many islands of our disciplinary boundaries, but this is a continuing process.

In this, my first contribution to this report as Dean of the Faculty, I am encouraged by the commitment of our researchers to creating a depth and breadth of scholarship from New Zealand for local and global audiences, and look forward to building on the strong base already in place. I hope you enjoy reading the magazine, and appreciate the evident commitment to enquiry in all its forms, to the creation of novel artefacts, products and processes through design and a variety of technologies, to critiques of the status quo, to the scholarly success of our students. I hope, like me, that you may finish your reading enlightened and inspired by the contributions of our scholars.

Ngā manaakitanga

**Guy Littlefair**  
Tumuaki, Te Ara Auaha  
Dean, Faculty of Design and Creative Technologies  
Auckland University of Technology

# RESEARCH REVIEW

## Faculty of Design and Creative Technologies

### Volume IV

An annual magazine of the Faculty of DCT at Auckland University of Technology

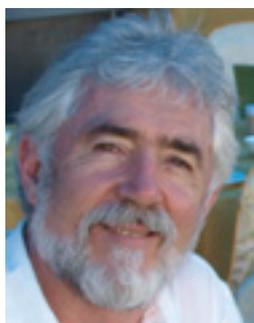
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#### Editors:



**Tony Clear**  
Associate Dean Research  
[tony.clear@aut.ac.nz](mailto:tony.clear@aut.ac.nz)



**Slavko Gajevic**  
Research Development Specialist  
[slavko.gajevic@aut.ac.nz](mailto:slavko.gajevic@aut.ac.nz)

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**Sylvia Henrich** for her photo of Fale Samoa at Tropical Islands resort

**Associate Professor Monique Redmond** for her contribution to In Memoriam for Dr Paul Cullen

Cover photo: *Future Islands*, the New Zealand Exhibition at the 2016 Venice Architecture Biennale. Creative Director: **Professor Charles Walker**, Founding Professor, Architecture + Future Environments at AUT. Photographer: **David St. George**

## Editorial commentary

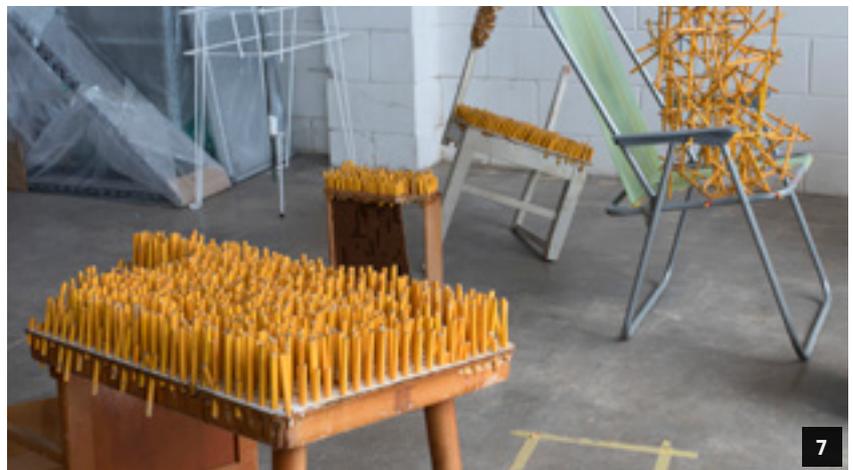
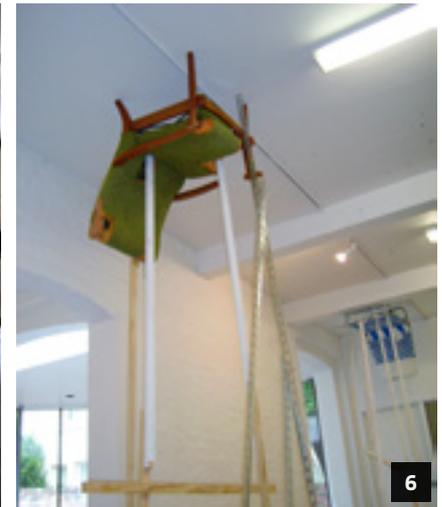
The voluminous lists of publications included in this Review have been drawn from the University's research repository. They appear as the reporting system has generated them based on the original data entered by the researchers, without further editing.

## Design and Production

PinkLime

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1: 2012, Paul installing MODEL (1999–2012) for City Gallery Wellington. 2: Paul installing (Falsework). 3: 2012 Tower Theory (with Andy Thomson) at Conical, Melbourne. 4: 2014, Paul installing Mezzanine at Massey University Engine Room. 5: MODEL (1999–2012). 6: 2007, George Fraser Falsework. 7: Image by Marie Shannon, 2012, taken in Paul's Henderson studio (various works). 8: 2014, Paul testing his egg work, Ladder in studio for the Whittaker Egg Hunt to raise money for Starship (final install was in the lobby of Barfoot & Thompson on Shortland Street). 9: 2015, Survey, with incomplete models ZK/U, Berlin, Germany (detail)

## IN MEMORIAM

### DR PAUL CULLEN (1949–2017)

Since arriving at AUT in 2008 from Manukau Institute of Technology, Dr. Paul Cullen (1949–2017) led the Sculpture section of Visual Arts, was promoted to Associate Professor and then subsequently became Head of Department of Visual Arts from 2014 till 2016. This new role suited him: he was even-handed, measured in his judgments and creative in resolving both the day-to-day and subject-orientated issues and challenges that characterise life and work in a university. Most remarkable of all, he facilitated great collegiality and respect for each other as peers, respect for the students and the work of teaching.

During his tenure at Auckland University of Technology he was awarded a prestigious Senior Fulbright Fellowship in 2012, which he realized at the Architecture Department at Auburn University in Alabama where he worked with leading New Zealand landscape architect Dr. Rod Barnett to develop a site-based outdoor sculpture project. During the fellowship, he also undertook research in experimental site-based art projects in various locations around the US including Los Angeles, New York, Chicago and Marfa. He returned to New Zealand via Germany for Documenta 13 and carried out other research in Munich and Berlin where he returned much later, to complete an artist's residency, Zentrum für Kunst und Urbanistik in Berlin 2014. In 2012 Paul unsurprisingly, won the Auckland University of Technology Art and Design Research Excellence Award.

Working in the professoriate, he made a significant contribution to the research culture at AUT. A supervisor at Honours, Masters and PhD levels, he was also involved in mentoring and advisory work with ST PAUL Street Gallery, and throughout his tenure his positive influence and contribution was experienced at all levels of the institution, not least, in the Sculpture undergraduate. His prolific research as an artist extended to significant creative collaborations: he produced many catalogues and prize-winning artist books, notably the *r/p/m* series made working closely with his daughter Layla Tweedie-Cullen, the director and co-founder of the Auckland-based publishing house split/fountain. Paul also collaborated with a large team of international artists on a major AUT funded collaborative art project titled *Weakforce* which exhibited different iterations of the project in Nova Scotia, London and Seoul, and finally at ST PAUL Street Gallery in November 2013.

Paul's talent as a sculptor was acknowledged as far back as 1975 when he won the first Hansells Sculpture Award. Since that time, he received grants from the then Arts Council of New Zealand and The Goethe Institute, which enabled him to travel from New Zealand to look at and experience art from all over the world. He then went on to win the Moët Chandon Artist Fellowship where he was resident at Avize, France. A research grant from MIT in 2002 made it possible for him to see the

seminal Documenta 11 in Kassel Germany and Manifesta 4 in Frankfurt.

Paul, who first undertook a degree in science and botany before studying art, very much admired the Swiss artists Peter Fischli and David Weiss. The renowned artist duo were of his generation, and their humour and interests very akin to his own. Their abiding interest in where art and science meet, and how the forces of nature, particularly gravity, interacted with things and materials, were shared by Paul whose own practice playfully explored its enormous effect on us and things in the world. The Fischli and Weiss film *Der Lauf Der Dinge* (The Way Things Go) was one of his favourite teaching aides: to see it is to understand the essence of his thinking and making. Paul loved sculpture and saw meaning and making as inseparable, a view that influenced every aspect of his teaching and research.

Paul's art practice was at the centre of everything he knew and loved about the world, and he took the students with him in this love and deep knowledge of his subject. His capacity for teaching was vast, and he inspired all of his students with a wonderful, studio-centred *modus operandi* as practicing artists, nurturing and supporting AUT students and graduates both inside and outside of the university, making opportunities for them whenever and wherever he could. In the last few years of his life, he realised a number of major public works such as 'A Garden', a landscape installation on the Te Papa rooftop in Wellington in the summer of 2009–10. His energy for work, whether educational and creative, practical or personal, was unparalleled – even in the last stages of his terminal illness. In his last years, Paul designed the exhibition *The Brain* at Te Uru Waitakere Contemporary Gallery, for his great friend and artist Christina Read, who curated the show. With the help of respected ex-students, Paul realized several public sculptural works, including a large public work for the 2017 Sculpture on the Gulf on Waiheke Island. At Two Rooms Gallery in February this year, Paul held a final solo exhibition of new works titled *Provisional Arrangements*, which closed finally, the day before he died.

Arohanui Paul

*"My project is intended, in part at least, to direct attention to the material world and to encourage reflection on the active participation of the forces of vibrant matter and events."*

**Associate Professor Andy Thompson**

Paul Cullen website: <http://www.paulcullen.info>

## STAFF AWARDS AND DISTINCTIONS GAINED IN 2016

### **Associate Professor Charles Walker**

Was appointed as Creative Director of the New Zealand Exhibition at the 2016 Venice Architecture Biennale by the New Zealand Institute of Architects.

### **Professor Thomas Neitzert**

Awarded the title of Professor Emeritus by the AUT Council.

### **Andrew Ensor, Director and the NZ SKA Alliance**

Won A Highly Commended Award for Excellence in Research at the New Zealand Innovation Awards. The award applied to all the NZ SKA team, which includes the AUT staff members: Seth Hall, Peter Baillie, Anthony Griffin, Will Kamp, Nicolas Pradel, David Wilson, Brody Radford, Sergei Gulyaev, Willem van Straten.

### **Maria O'Connor, Mark Jackson, Jessica Mentis** (with 14 students)

Won Designer Institute of New Zealand Best Awards (DINZ), Gold in Student Spatial category for Zoon Politikon

### **Elvon Young** (with Lauren Hare)

Won DINZ Best Award: Gold Pin - Retail Environments for M11 Studio

Won DINZ Interior Award: Supreme Award for M11 Studio

Won DINZ Retail Award for M11 Studio

### **Christina Milligan**

Won the Te Pou Tatau Pounamu NZ Peace Foundation Award at the Nga Aho Whakaari (Maori Film Practitioners) 20th Anniversary Awards.

# DCT RESEARCH AND TEACHING AWARDS FOR 2016

## Learning & Teaching Awards for Professional Development:

**Simon Clark, Dr Peter Gilderdale, Sue Gallagher** (School of Art and Design)

**Digital Media Team: Dr Gudrun Frommherz, Ross Brannigan, Matt Guinibert, Abhishek Kala, Justin Matthews** (School of Communication Studies),

**Dr John Collins** (School of Engineering, Computer and Mathematical Sciences)

## Dean's Learning and Teaching Awards (special awards nominated by Schools):

**Phil Robbins** (School of Engineering, Computer and Mathematical Sciences)

**Ben Kenobi** (Colab)

## Teaching Assistant Awards:

**Mohammadreza Arjmandi**

**Barry Dowdeswell**

**Vivienne Breen**

## Research Awards:

**Dieneke Jansen** (Critic and Conscience of Society)

**Dr Stephen Thorpe** (Contribution to Research Infrastructure)

**STEM-TEC Centre – Sergei Klymchuk, Director and Roy Nates, Deputy-Director**

(Research into Pedagogy of the Discipline or Scholarship of Teaching and Learning)

**Dr Roopak Sinha** (Mid-Career Researcher)

**Dr William Liu** (Mid-Career Researcher)

**Shane Inder** (Contribution to Meeting University and Faculty Goals to Build Research Activity, Quality and Profile)

**Associate Professor Verica Rupar** (Contribution to Meeting University and Faculty Goals to Build Research Activity, Quality and Profile)

**Professor Stephen MacDonell** (Contribution to Meeting University and Faculty Goals to Build Research Activity, Quality and Profile)

**Associate Professor Hamid GholamHosseini** (Contribution to Meeting University and Faculty Goals to Build Research Activity, Quality and Profile)

## Dean's Award for Research Excellence:

**Natalie Robertson**

**Professor Geoff Craig**

**Dr Muhammad Asif Naeem**

**Andrew Lowe**

**Dr Ricardo Sosa**

# DCT STUDENTS' AWARDS FOR 2016

## The Vice-Chancellor's Doctoral Scholarships

**Andries Meintjes:** *Automatic Heart Sound Auscultation*

**Dat Doan:** *Developing a process mapping procedure of building information modelling (BIM) application for building construction projects*

**Marcela Brauner:** *Incorporation of Hygrothermal Modelling into Building Information Modelling (BIM) as a Sustainability Assessment Tool for Improvement of Building Performance Objectives*

**Nata Tolooei:** *Exploring the Use of Emotional Experiences in Idea Development (Case Study: Healthcare Design)*

**Sulaiman Fadlallah:** *Lightweight Composite Structure for Solar Receiver Heliostats*

**Suzanne Darragh:** *Body as Nature: An Ecological Interaction Model in Game Play*

## AUT students won Best Design Awards by Designers Institute of New Zealand

### GOLD

**Fleur Palmer, Nga Aho:** *Future Proofing*

**Venice Biennale Group,** Spatial Design: *Zoon Politikon*

**Antonio Wan,** Product Design: *The little ones*

**Kimberley Ruwhiu,** Fashion Design: *The Waihou Jacket*

**Alex Turner,** Communication Design: *Stille*

**Kate McGuinness,** Communication Design: *When I grow up, I want to be ...*

**Alistair McCready,** Communication Design: *Obelisk Typeface*

**Alistair McCready,** Communication Design: *Monolith*

### SILVER

**Alistair McCready,** Communication Design: *Hui Typeface*

**Milly Scott,** Communication Design: *Symbols & Spaces*

**Rob Lewis,** Communication Design: *Chronicle 01*

**Eden Short,** Communication Design [Masters project/DHW Lab]: *Wayfinding for Health Seeking*

**Hugo Christian Slane,** Communication Design: *The End of Graphic Design*

**Hadyn Jack,** Product Design: *Sixth Sense*

**Kelly-Anne Keach,** Product Design: *Lumi*

**Joshua Bradley,** Product Design: *Waterboy*

### BRONZE

**Jordan Warham,** Product Design: *LAYR Ankle Support*

**Hayden Maunsell,** Product Design: *Sideboard Speaker*

**Shiri Friedler,** Product Design: *Split*

**Charlotte Dickson,** Product Design: *Lin Breaks her Arm*

**Ngaire Hart**

Became the first Māori woman to get a PhD in Engineering from AUT and second in New Zealand. Ngaire Hart's PhD thesis is titled *Monitoring New Zealand's native bees: a collaborative approach using image analysis*.

**Lisa Thompson**, 1st year student

Won the New Zealand Sign Language in the Media Award for her documentary – *The Future is in Your Hands*.

**Julia Holderness**, PhD Student

Won the Premier Award at the Glaister Ennor Graduate Art Awards.

**Lara Galea, Katriel Worrall and Sophie McIntyre**, Bachelor of Creative Technologies students

Won their entry into the 2016 World of Wearable Arts Show.

**Farah Khalaf**, A & D student

Won the International Game Developers Association Scholarship.

**Rachel Burton, Jacob Darowski, Hamish Davies, Chelsea Finlason, Michaela Franklin, Celia Hall, Ethan Hoogenboom, Ethan Horne, Emily O'Hara, Christine Park, Madeleine RAcz, Angus Roberts and Kristie Toms** (Spatial Design students)

Were selected to display their projects at the 2016 Venice Architecture Biennale.

**Sarah Jacques Foottit, Lisa Clist and Jenna Gavin Loggie** (Master students)

Won Trophée du Conseil Général de Seine-Saint-Denis, the first Prize in the European Street Design Challenge at the Futur en Seine Festival.

**Joshua Iosefo**, Postgraduate- Communications Student

Awarded the Kiwibank Local Hero Awards for Auckland at the 2016 Kiwibank New Zealander of the Year Awards.

**Sam Parittotokkaporn, Miguel Jo-Avila and Parn Jones** (IBTec's representative team Muscle Sense)

Won a Tech Jumpstart Award 2016 from AUTEL Commercialisation for their research A wearable sensor to measure strength and motion of training muscle across fitness exercises, weight lifting, sport training and body building.

**Gautam Anand and Anubha Kalra** (IBTec postgraduate students)

Won the prestigious Universities New Zealand Claude McCarthy Fellowship.

**Claudia Morris** (Visual Arts), **Sarah Hong** (Spatial Design), **Finn Godbolt** (Textile Design), **Nicola Luey, Monique Burgess and Georgia Bretnall** (Fashion Design)

Won the Textile and Design Lab postgraduate student awards.

**Ayush Narula** (Masters of Health Informatics student) and **Amanda Brown** (Bachelor of Creative Technologies student) Team #Involve

Won the Auckland Startup Weekend Award held at the Grid AKL.

**Stephanie-Anne Croft**, PhD candidate

Won the 3rd Place in the Inaugural Falling Walls Lab Australia held at the Shine Dome in Canberra.



# REFLECTIONS

# CURRENTS AND TRIBUTARIES OF RESEARCH INTO TE RIU O WAIAPU

Contributed by Natalie Robertson

A high-pitched karanga, a call cuts through the still air. A return call meets the first. Moving through the gate, the people advance, women in front, men behind. Filled with emotion, I am on the mahau of the marae, alongside the senior women of Rangitukia. We are welcoming my hapū Te Whanau a Pokai from Tikapa across the river who bring with them the aroha of Pōkai Marae, along with other elders from nearby marae. It is Saturday May 7th, 2016, a beautiful sunny day. The occasion is the East Cape Ō Hine Waiapu launch of the book *A Whakapapa of Tradition: One Hundred Years of Ngāti Porou Carving, 1830-1930*, Ellis, N & Robertson, N. (2016), published by Auckland University Press. This collaboration brought together Ngarino Ellis's research into Iwirakau Waiapu carving and my research into marae and photography. For five years, I travelled extensively around Aotearoa to photograph Iwirakau-tradition meetinghouses, carvings in museum collections and geographic locations, mostly on my own. I visited many elders around the East Coast to gain permission to photograph our sacred treasures, our tipuna (ancestors). In doing so, I sought to fill a void, as a Māori photographer, to responsibly document our own places and ways of being.

Ngāti Porou leader Tā Āpirana Ngata acknowledged the central importance of Māori creative practices with economic and cultural survival, through starting the Rotorua School of Māori Arts and Crafts in 1926. Commemorated in this exceptional poutokomanawa - once the interior central post of Tikapa meetinghouse Pokai - is esteemed master carver Iwirākau. Without Ngata, the carver traditions of Iwirakau may not have survived the 20th century. I descend from the same hapū as Iwirakau and his wife Rakaitemania. Tikapa is my turangawaewae, my place to stand. Paul Tapsell said:

'Taonga are our time travelers. They make real not only the ancestors but also their surrounding landscapes by burying a sense of belonging deep into our living core.'

Whakapapa is the crucial method through which tribal narratives are animated. An aspect of photography that is rarely reported on in illustrative books such as *Whakapapa of Tradition*, is the networked relations between photographer, the photographed and the lifeworlds of the communities involved. This project is unusual in that both researchers, writer and photographer, share whakapapa in common, being of Ngāti Porou ki Waiapu. My marae, Tikapa, where the poutokomanawa Iwirakau once resided, could be described as a tuakana (elder), or 'grandparent' marae. Pokai and Pohatu, after whom the whareniui and wharekai are respectively named, had children who maintained the chiefly lines that gave them mana whenua over the lands of the valley. Closer to the river mouth north-east of Tikapa, is Ō Hine Waiapu. She is named for the powerful feminine taniwha spirit of the river. Both Ngarino and I whakapapa to these marae and places.

Seeking permission to photograph marae at home, entails a recognition that these places are 'home', that we will return to for the duration of our lives. As such, our responsibilities are far beyond those of writers and photographers who come to do a job or research, then leave, never to return. When we launched the book at Ō Hine Waiapu, it connected both sides of the river, honouring the aphorism 'tena paparinga, ki tena paparinga' about each side being like the cheeks, one on each side of the face.

In May 2017, national success for the power of the photography came via the national Ockham Book Awards for *Whakapapa of Tradition*. One of only eight books to receive an award, we received The Judith Binney Best First Book Award for Illustrated Non-Fiction. It was truly humbling to know the book would reach many more people with this commendation. A subsequent national award indicates that this book is a landmark volume in the history of writing about Māori art. Yet, receiving the show of support from our tribal whanau and community on the marae a year earlier, eclipses these other accolades. The saying - Ehara taku toa, he takitahi, he toa takitini - My success should not be bestowed onto me alone, as it was not individual success but success of a collective - is apt, as the book had many mentors and supporters along the way.



Iwirākau Poutokomanawa.  
Tamaki Paenga Hira, Auckland War Memorial Museum.  
Photo: Natalie Robertson with the kind permission of Morehu Te Maro and Auckland War Memorial Museum. Photo: Natalie Robertson

The surrounding lands of Te Riu o Waiapu, the valley, the rivers and streams, the hills and beach, are the primary sites of my research practice. Much of my work involves being on the land to observe environmental changes. I began 2016 with an exhibition named for the river, 'Waiapu Kōkā Huhua – Waiapu of Many Mothers', a saying which acknowledges the many female leaders of the Waiapu Valley, and also our ancestral mother. Exhibiting Pohautea 1-4, 1996/2015, the largest photographs I have printed (3.25M in length, by 1.12M wide), my focus is on the mauri (life force) of the river. These photographs have been exhibited now in France (2015), Germany (2016) and in Tamaki Makaurau (2016). When they were in Nought for the Portion of Taho, as part of Imagine the Present at St Paul St Gallery, they were accompanied by a new soundscape, three versions of a moteatea (chant) He Tangi Mo Pahoe, a lament for a young man, Pahoe, who drowns in the river and is found entangled in driftwood. The moteatea is also a taonga, an oral time-traveller that not only connects our ancestors found in carved form in our wharenuī, but also the river as an ancestor, and the surrounding lands that carry the stories of environmental degradation.

On November 7th, 2015, Tikapa Marae hosted the signing of the Joint Management Agreement between Te Runanganui o Ngati Porou, and the Gisborne District Council for fresh water management. This followed the 2014 signing of the Waiapu River Accord, a one hundred-year restoration plan. Our mauri – life-force – is interconnected with the life-force of our waterways and our lands. They are barometers of our cultural health and wellbeing. Currently, my research is a response to the one hundred-year goal, with the creative works intended to visually communicate the state of the river today. The tributaries of my research – writing, photography, video, collaborative social and environmental practices – are all connected through whakapapa and through a sense of belonging to the land, deep within my core.

<sup>1</sup> Tapsell, Paul, and Victoria University of Wellington, Art History. "The Art of Taonga." Art History, School of Art History, Classical and Religious Studies, Victoria University of Wellington: Gordon H. Brown Lecture, 2011. P.10



# BLENDING MĀTAURANGA MĀORI, ENVIRONMENTAL SCIENCE AND ENGINEERING TO UNDERSTAND BEES

Contributed by Dr Ngaire Hart

When I sat through night classes at AUT after a hard day's work, along-side other tired electrical technicians, I had no idea I would be graduating with my PhD in Engineering several decades later. Let alone doing so, with my three proud children looking on in astonishment at my capping, to become the first in my whānau to gain a PhD.

What a thrilling journey it has been so far. As I reflect on the twists and turns, the feeling that comes to mind the most is a deep gratitude for those who have helped me along the way; my mentors Dr Loulin Huang, Dr Barry Donovan, Dr Linda Newstrom-Lloyd and Dr Mere Roberts. As I embarked on my research journey, I had little understanding about what to expect and limited supports. Because of this, the encouragement from my supervisors was even more crucial to me, they became my role-models as they guided me through the world of academia.

My PhD was an inter-disciplinary study that combined aspects of Mātauranga Māori, Environmental Science and Engineering, and focused on monitoring populations of native bees. I was first introduced to New Zealand's native bees almost a decade ago, during planning for my Masters study. Dr Newstrom-Lloyd, a Pollination Biologist with Landcare Research, was conducting studies to determine how far native bees travelled; while Dr Donovan was preparing to publish his comprehensive works on New Zealand's native bees.

I had become an engineer, crossing over into the field of environmental science. With little understanding about the scientific method (or native bees), but with a passion for antenna design, I proposed a miniaturised tracking device for the insects. Within a month I realised the challenge was much greater, since so little was known about native bees. Thus, my master's research became a very old fashioned natural history flavoured study. I collected information about native bees in the Whangarei area. I spent countless hours recording my observations, and with each subsequent summer enlisted my whānau and friends to help. I gained valuable insights about myself and my Ngatiwai-Ngapuhi whakapapa; and a deep respect for native bees, which persists to this day.

I was excited when my mentor Dr Huang, a Mechatronics Engineer from AUT, approached me about extending my previous research. More comfortable, as I was now an engineer again; with some extra scientific knowledge, Dr Huang and I initially considered developing a tracking device. But, as it turns out, native bees have some unique behaviours. Since they nest in clay soils, they are adept at clearing unwanted debris from their bodies. For this reason alone, the

same tracking technologies used on other insects, are not suited to our bees. More importantly, and despite recognising native bees as key-stone pollinators, little is known about their population abundance and species diversity. Since there were few practical methods available to easily monitor ground-nesting native bees, Dr Huang and I discussed the use of digital imaging tools and methods.

Through my previous experiences, photographing individual bees was a hit and miss exercise. However, capturing images of nests was straight-forward; the number of active nests could also be used as a proxy for populations. For these reasons, the methods I used in my research focused on counting the number of active nests using digital images. I conducted field surveys over six years (2009–2014), at communities of native bees located in Whangarei (Northland) and recorded fundamental ecological data, alongside the photographic images. I decided early on, to focus on open source packages and algorithms, to ensure there was easy access to the monitoring system by community scientists. I selected a popular, Open-source biomedical imaging platform FIJI, to process images. Rather than applying standard, traditional imaging methods, I focused on a novel machine-learning algorithm called a Random Forest; now recognised as one of the most powerful, machine-learners for ecological data processing and analysis.

My results were encouraging; but I had to complete a major revision of my PhD manuscript. This was mainly to satisfy the scientific community, to ensure my results could stand-up to scientific and ecological rigour. Even though it was a huge undertaking for me and my whānau, it was necessary and worth the effort. After-all, the image-centric monitoring system was designed to be used by the scientific community, to support greater understanding of New Zealand's native bees. Ultimately, my study showed that the nest counts derived from the automated imaging methods compared well to manual-field and manual-image counts. There were good agreements between them, showing the image-centric approach could replace more complicated manual methods. In addition to this, the results indicated the number of active nests decreased over five years, ranging between 26–69% declines. The reasons for this are unknown, but indicate larger ecological investigations are necessary. It is encouraging to know that since starting my PhD, at least three other studies on native bees were initiated – giving scientists much needed tools, and information to understand native bees and the ecosystems they support.



Native Bees



Wyatt and Aaron collecting samples



Kale collecting samples



Mokoera performs for delegates. Ka Haka! Empowering Performance: Māori & Indigenous Performance Studies Symposium. Hosted by Te Ara Poutama (AUT) 2016. Photo: Jamie Cowell



Maree Sheehan, Buckwheat & Moana Maniapoto welcome delegates to the evening performance. Ka Haka! Empowering Performance: Māori & Indigenous Performance Studies Symposium. Hosted by Te Ara Poutama (AUT) 2016. Photo: Jamie Cowell



Eddie Madril & Valance Smith present Hoop Dance & Waiata. Ka Haka! Empowering Performance: Māori & Indigenous Performance Studies Symposium. Hosted by Te Ara Poutama (AUT) 2016. Photo: Jamie Cowell

# PERFORMANCE STUDIES: FROM WRESTLING TO KAPA HAKA AND BACK

Contributed by Associate Professor Sharon Mazer

It was my great fortune to begin my academic career as a theatre scholar, just as Performance Studies was emerging as a vital new interdisciplinary discipline, some thirty years ago. One minute, I was writing a dissertation on actor–audience dynamics in Middle English Drama for my PhD at Columbia University; the next, I was hanging out ringside watching professional wrestlers train at the Unpredictable Johnny Rodz School of Pro–Wrestling at Gleason’s Gym in Brooklyn. The World Wrestling Federation (WWF, now World Wrestling Entertainment or WWE) was in full flowery swing: Hulk Hogan, Randy Savage, the Ultimate Warrior . . . massive men with muscles, ginormous stars of the squared circle. My first article, ‘The doggie doggie world of professional wrestling,’ was published by TDR: The Drama Review, the pre–eminent journal of Performance Studies. Along with my book, *Professional Wrestling: Sport and Spectacle* (University Press of Mississippi, 1998), it set the stage for the development of ‘performance ethnography’ and launched a field of study that now churns out books, articles, theses . . . even a new academic organisation called (without the necessary irony I think) ‘Professional Wrestling Studies’.

Soon after I arrived in Christchurch to take up a position as Head of Theatre & Film Studies at the University of Canterbury in 1994, I was introduced by Te Rita Papesch to Māori performing arts. Te Rita is a prominent Kapa Haka performer, judge, commentator and scholar, whose PhD on the role of Kapa Haka in creating a modern Māori identity I then supervised. She has gone on to nurture new Māori academics at Te Wānanga o Aotearoa, while we continue to collaborate on presentations and publications, often deliberately taking opposing sides of the bi–cultural divide in order to spark debate about the act of performance research in Māori and Indigenous contexts.

Even more controversial has been my work with and about Mika, the rather (in)famous gay Māori performance artist. My new book, *The Fabulous Revolution* (Auckland University Press, forthcoming 2018), chronicles the ways Mika’s ‘pic–n–mix’ cabaret performances of identity and his ‘native drag’ (or ‘ethnic burlesque’) of queer Māori performativity can be seen to reflect and challenge New Zealand’s social history, its coming of age as an almost postcolonial nation at the edge of cosmopolitanism. The book will be filled with delicious, many salacious, images drawn from Mika’s extensive archive, with just enough scholarly rigour to remain on the right side of the academic line.

My research continues to look for and question how the relationship of performance to audiences can be seen to be staged in order to affirm, or challenge, the dominant social order. As an internationally prominent performance scholar, I seek to foster the development of a distinctive NZ–centred brand of Performance Studies, while contributing significantly to the international conversation. Arriving at AUT in 2015, after twenty years at the University of Canterbury, much of my current work is in support of new and emerging academics, in particular Māori and Pasifika. Moving to Auckland has given me the opportunity both to deepen my understanding of the complex interactions between performance and culture and to immerse myself in a rich, diverse theatre scene.

As I weave a path for myself between the Faculty of Design and Creative Technologies and Te Ara Poutama, the Faculty of Māori and Indigenous Development, I’m often touched by the generosity of my colleagues, feeling privileged to be part of a great many valuable initiatives and projects. It’s been wonderful to participate in and present my research at symposia sponsored by the Popular Culture Research Centre, for example, and to support the School of Art & Design as it builds its research profile, especially with the Performance Based Research Fund (PBRF) evaluation on the horizon. At the same time, I’ve had the pleasure of working with my Te Ara Poutama whānau to enhance our research culture. Together, we created the tremendously successful Ka Haka! Empowering Performance – the inaugural Symposium for Māori and Indigenous Performance Studies – in 2016, and we are now busy planning for 2018’s event.

As I write this, professional wrestling has once again grabbed my attention. This I blame on the rise of Donald Trump to the bully pulpit and what appears to be the disintegration of the American body politic into something resembling Monday Night RAW. In ‘Donald Trump Shoots the Match’, I recall Trump’s performances in the ring – in particular when he faced off against WWE promoter, Vince McMahon, in the ‘Battle of the Billionaires’ (Wrestlemania 23, 2007) – and I argue that wrestling’s worldview is now the *modus operandi* in the USA. Time sensitive as it is, with push coming to shove every day, it seems, the article will be a test case for a kind of ‘pop–up’ e–publication by TDR, so that I am coming full circle as a scholar while again expanding the boundaries of performance research.

# THE MAHI-TOI FRAMEWORK FOR MĀORI PRODUCTION PROCESSES AS RESEARCH METHODOLOGY

Contributed by Dr Jani Wilson

The inaugural Design and Creative Technologies Māori Post-Doctoral Research Fellowship at AUT, where I specialise in Film Studies and located in the School of Art & Design (2015–2017), has effectively launched my academic career. In addition to publishing articles and chapters, I have been presenting my research at symposia and conferences in New Zealand and overseas (UK, Serbia, Turkey). Attending international conferences has allowed me to set my work into the context of other indigenous and cultural perspectives. The Fellowship has afforded me the luxury of slow-thinking time, primarily to create and begin to refine a proposal for an Aotearoa Film Studies framework. Being successful in applying for competitive awards from Ngā Pae o te Māramatanga (five in all) has supported my doctoral research and travel to conferences, while also boosting my confidence.

Along with many of my Māori and Pasifika colleagues, since starting university I have grappled with question of the relevance of the Euro- and American-centric film theories and histories to our research here. As a new and emerging Māori film scholar, I want to do my part to see the field expand to embrace and make effective use of Māori ways of thinking and knowing. To this end, I am developing a theoretical framework called Mahi-toi that would see us employ Māori art production processes as research methodology. Many Māori researchers have mahi-toi skills. Mahi-toi, arts and the production of art, is where a concept takes physical form, and is brought into the physical realm by mahi-ā-ringā (working with the hands). The mahi-toi practitioner is the conduit. When the practitioner is also the researcher and vice-versa, these vernaculars can enrich each other, and add well needed



Dr Jani Wilson and Tame Iti at the ADSA Conference

structure to the work. Setting research writing practice beside mahi-toi practice also lends theoretical and analytical frameworks that could be useful for mahi-toi practitioners making the transition to academic research. Mahi-toi focuses on mahi-toi as the scaffolding for theoretical analysis and writing frameworks across the arts. I demonstrate how I came to design the framework within the film theory context when it became apparent that post-colonial and kaupapa Māori theories did not meet the needs of my research and analysis.

As well, in my vision, Aotearoa Film Studies will integrate mātauranga Māori/ā-iwi, empower Māori film scholars, enrich our knowledge of New Zealand film and culture, and perhaps even change the way we look at film more widely. A good proportion of the work developed over the course of the Fellowship has focused on reading Māori-centred films through tikanga (correct procedures) and kawa (marae protocols) lenses. Film analyses through a kawa-lens can look at the ways in which haukāinga (home people) are framed on their marae (traditional residence). For instance, my Ngāi Taiwhakāea whānau (Ngāti Awa, Whakatāne) viewed the short film, Kerosene Creek (2002) where half of the film is set on a marae during the tangi (funeral ritual) of two young brothers. The viewing generated various hapū (sub-tribal) specific questions. For instance, would Ngāi Taiwhakāea lower the flag for a film production? Would any of us climb inside a waka tūpāpaku (coffin) or support such an act on our marae? Would our kahui kaumātua (group of elders) allow internal shots of our wharetīpuna (ancestral house) to add to a film's ambiance? When hapū permit their marae to be part of a film production, where are the lines drawn between produced kawa and kawa tūturu (proper, actual)? These are some of the important research questions that film analysis conducted via kawa can potentially generate for Aotearoa Film Studies in the future. Furthermore, such questioning opens up dialogue about the significance/differences between hapū perceptions of Māori-centred films, and can facilitate a way forward for Māori filmmakers. Film analysis based on tikanga, kawa, te reo (the language) and mātauranga Māori/ā-iwi (Māori knowledge/tribal knowledge) is also what distinguishes Māori film analysis from what film studies currently offers.

During the Fellowship so far, I have presented at six conferences/symposia, published two articles ("He Mokopirirākau: Cliff Curtis" (2016) in Te Kaharoa, "Developing Mahi-Toi Theory and Analysis" (2017) in MAI Journal) and have a number of others in various stages of submission and review. I am a credited researcher on Associate Professor Jo Smith's Māori Television: The First Ten Years, a Marsden Grant Funded project, and am currently research assisting on my second Marsden project, A Fire in the Belly of Hineāmaru (2020), with Associate Professor Melinda Webber at the University of Auckland. I was on the organising and review committee for the recent ADSA Conference (Performing Belonging) at AUT, and am currently in planning stages of the bi-annual Ka Haka: Mis/Representing Violence (2018) in Te Ara Poutama.

I have been very fortunate to secure co-teaching alongside Robert Pouwhare in Māori Media at Te Ara Poutama. The courses we are co-teaching are Māori Media Project, Māori Media Production, Co-Operative Education with broadcasting industries, Creative Writing and Kaupapa Māori Screen Productions. Co-teaching these courses in Māori Media has allowed me to bring both my masters and doctoral theses off the pages and to implement what was once theory into classroom practice. It has been exceptionally rewarding. Teaching has also expanded my research plans beyond the post-doc and helped craft my future. Equally rewarding has been building relationships with staff and students at the AUT marae hub, and contributing to the cultural fabric of the institution as a kaikaranga (caller) at the AUT marae and at graduation.

I have accepted a permanent lectureship role at Te Ara Poutama from December 2017. I am very grateful for the Māori/Pacific Post-Doctoral Fellowship, and equally excited for the future.



# PROJECTS

# AT THE FOREFRONT OF REVOLUTION IN ARTIFICIAL INTELLIGENCE AND COMPUTER SCIENCES

Contributed by Professor Nikola Kasabov

Neural networks (NN) and deep machine learning algorithms shape the current revolution in Artificial intelligence (AI). The AI innovative applications across disciplines become increasingly important. Prof. Nik Kasabov is among the world leaders. He has been working for 40 years in this area and now he is leading a novel research on the next generation of AI – the brain-like, or neuromorphic AI, along with preparing the next generation of information scientists. Prof. Kasabov is the Director of the Knowledge Engineering and Discovery Research Institute (KEDRI) ([www.kedri.aut.ac.nz](http://www.kedri.aut.ac.nz)) and Professor at the School of Engineering, Computing and Mathematical Sciences at AUT.

Many exciting initiatives kept Nik busy over the 2016: an EU funded project PANTHER; two collaborative projects with partners from China; an AUT Strategic Research Investment Fund (SRIF) project INTERACT; several international conferences where he presented keynotes; supervision of his 14 PhD students; publications in top journals. Most importantly, he enjoyed his work on all of these.

PANTHER is an exchange program funded by the European Commission and is worth \$NZ 1.8 million. It offers PhD, postdoc and staff scholarships and the main objective is to develop research collaboration between the European Union, Australian and New Zealand universities, with a focus on engineering and technology. Partners are five universities from Europe (Poland, Ireland, France, Spain, Hungary), two universities from Australia (UNSW, Griffith) and one from New Zealand – AUT. At AUT it is hosted by KEDRI. So far, 12 visiting researchers from European universities have worked at AUT for 64 months, bringing to AUT substantial external funding. Ten new researchers are coming to AUT from Europe in 2017 and 2018. Prof. Kasabov, the NZ coordinator and Ms Joyce D’Mello, the Manager of the program, believe that the real benefit is for the students and the researchers involved from both Europe and AUT.

In the last 15 years, since KEDRI was established, Prof. Kasabov and his team have developed innovative information methods and systems and have contributed significantly to the establishment of cross-school and faculty collaborative research culture at AUT, to the research reputation and to growing PBRF funding obtained by AUT. Last year Professor Kasabov was awarded the largest AUT SRIF funded grant INTERACT, 2017–2019, as its leader. It is a three-year project that involves eight research groups from the Faculty of Design and Creative Technologies and the Faculty of Health and Environmental Science. The aim is to develop new generic data technologies, along with their applications for computational intelligence across disciplines: health informatics, neuroinformatics, multisensory streaming data analytics, data modelling for environmental event prediction, computer vision, robot control, and others.

Professor Kasabov says: “Science is interdisciplinary and our goal is to develop new information methods and technologies, to discover knowledge and meaning in the huge amount of available data that appears to be chaotic, and to disseminate our findings for the benefit of New Zealand and other researchers in the world. We are making our research results available to the world research community, so that they can be used by other groups for R&D and commercialisation, subject to agreement. The knowledge discovered will live longer than any product developed for the current market”

Nik believes that, along with the knowledge creation, knowledge dissemination is an important part of an academic work. In 2016 he added 23 new journal and refereed conference publications to his list of 600 publications already. Altogether, his publications have attracted 12,000 citations and an h-index of 48 (<https://scholar.google.co.nz/citations?user=YT9Dz4AAAAJ>). Chapters from his edited ‘Springer Handbook of Bio-/Neuroinformatics’ have been downloaded 300,000 times by users from 55 countries. In 2016 he presented and disseminated his work as a keynote speaker at some prestigious international conferences: The 2016 IEEE International Conference on Systems, Man, and Cybernetics (Budapest, more than 1200 participants); Engineering Applications of Neural Networks (Aberdeen); Artificial Neural Networks and Pattern Recognition (Ulm, Germany); Intelligent Systems (Sofia); Big Data and Data Mining (Bali). He also presented some tutorials to large audiences at the World Congress of Computational Intelligence (Vancouver) and at the International Conference on Neuro Information Processing (Kyoto).

KEDRI is a vibrant, multicultural science hub as its PhD and Master students hail from many different countries. Prof. Kasabov is currently supervising 14 PhD students in addition to the previously graduated 28, from both University of Otago and AUT. His ex-PhD students lead the current AI revolution in New Zealand and across the Globe. Nik also acknowledges the important and hard work of the KEDRI Administrative Manager Ms. Joyce D’Mello that keeps KEDRI ‘well oiled’.

Prof. Kasabov’s innovative research has continued to gain him international recognition. In 2016 he was awarded several fellowships and honours: Distinguished Visiting Fellow of the Scottish Informatics and Computer Society, Visiting Professorship at the Robert Gordon University in the UK, Honorary Member of the Bulgarian Academic Computer Society. These awards were added to a number of previous unique achievements: Fellow of IEEE (only a few in NZ), Fellow of the Royal Society of New Zealand, Fellow of the ITP NZ, Distinguished Visiting Fellow of the Royal Academy of Engineering, UK, Advisory Professor of Shanghai Jiao Tong University, Visiting Professor at ETH/USZ Zurich. He is Past President of the prestigious International Neural Networks

Society and the Asia Pacific Neural Network Society and currently – a member of their Governing Boards.

When asked what is next, Nik says “Our mission is to push science frontiers further and the main things are still ahead. One of them is the brain-like AI, as the next stage in the AI revolution, and we can lead this development...”.

Nik always maintains that much of his achievements should also be credited to his students and staff at KEDRI, to the support from AUT, and above all – to his wife Diana, who in addition to her job, has been supporting him not only as a sounding board and an advisor and rigorous critic of his work, but also as a loving partner throughout their 45-years of marriage.



Professor Nikola Kasabov with KEDRI Staff 2016



Professor Nikola Kasabov presents the main primaries used in artificial intelligence at the Gibbons Lectures 2017, at The University of Auckland



Daku village, Tailevu, Viti Levu, in Fiji at low tide surrounded by mangroves: Tackling climate change resilience.

## BEARING WITNESS 2016 – A PACIFIC CLIMATE CHANGE JOURNALISM CASE STUDY

Contributed by Professor David Robie

In February 2016, Fiji was devastated by Severe Tropical Cyclone Winston, the strongest recorded tropical storm in the Southern Hemisphere. The category 5 storm with wind gusts reaching 300 km/h, left 44 people dead, 45,000 people displaced, 350,000 indirectly affected, and \$650 million worth of damage. In March 2017, the Secretariat of the Pacific Regional Environment Programme (SPREP) launched a new 10-year Strategic Plan 2017–2026, which regards climate change as a ‘deeply troubling issue for the environmental, economic, and social viability of Pacific island countries and territories’. In November 2017, Fiji will co-host the UN Framework Convention on Climate Change (COP23) conference in Bonn, Germany. Against this background, the Pacific Media

Centre despatched two graduate journalists to Fiji for a two-week pilot field trip in April 2016 on a ‘bearing witness’ journalism experiential assignment to work in collaboration with the Pacific Centre for the Environment and Sustainable Development (PaCE–SD) and the Regional Journalism Programme at the University of the South Pacific. This assignment, funded by a grant from AUT’s Research and Innovation Office, was the first stage of what is hoped to become a five-year programme.

Climate change is the most serious challenge confronting the microstates of the South Pacific. Indeed, some of the Small Island Developing States (SIDS) in the Pacific, especially Kiribati, Marshall Islands and Tuvalu, are often referred to as the ‘frontline’ of global climate change in a struggle against ‘carbon colonialism’ (Robie, 2011). The complexities and nuanced range of issues facing the Pacific are rarely addressed or explored by Western media, notably in Australia and New Zealand. What is published or broadcast tends to be ‘framed in ways that centre the interests and concerns of more powerful countries’ (Dreher & Voyer, 2015). Dominant frames portray SIDS as ‘proof’ of climate change, as ‘victims’ of climate change, as ‘climate refugees’, and as ‘travel destinations’. Whereas Pacific Islanders themselves see themselves in positive terms such as human rights, climate justice and adaptive responses

The new SPREP Strategic Plan 2017–2026 sets priorities and direction for the next decade. The focus is on ‘climate change resilience, ecosystem and biodiversity protection, waste management and pollution control as well as environmental governance with oceans as a key cross-cutting theme across all priorities’. Climate change resilience has been elevated as the ‘primary concern’ for the Pacific region. The Director-General of SPREP, Kosi Latu, declared:

*We have built on the success of, and learnt lessons from, the previous strategic plan, and worked together with members to identify priorities to address the Pacific’s environmental challenges. We now have a strategic plan that takes into account emerging issues ... and clearly charts our path forward from here on.*

The Strategic Plan considers climate change to be a ‘deeply troubling issue for the environmental, economic, and social viability of Pacific island countries and territories’. It argues that climate change has the potential to ‘undermine the very basis of the Pacific way of life’, which needs healthy ecosystems and ongoing access to natural resources for livelihoods and cultural enrichment. According to the plan’s foreword, unsustainable harvesting of natural resources, destruction and modification of habitats and ecosystems, and severe reductions in species populations continue to threaten the integrity and health of the vulnerable natural systems on which all island life depends. As the report noted:

*Pacific Island countries are striving to balance the needs and economic aspirations of their growing populations on the one hand, with the maintenance of healthy environments and natural systems on the other. Our ability to address these threats together, to craft cooperative and sustainable solutions, build on the opportunities provided by ecosystem services and secure political commitment, will determine the future for Pacific Islands people.*

Building on the earlier Strategic Plan 2011–2015, SPREP has also addressed undertakings to the United Nations Sustainable Development Goals, the Paris Agreement and

other key regional and global commitments. It has prioritised four regional goals with supporting objectives as the core programme for the next decade:

1. Climate change resilience
2. Ecosystem and biodiversity protection
3. Waste management and pollution control
4. Environmental governance

In 2013, the Pacific Media Assistance Scheme (PACMAS) baseline Pacific-wide 'state of media and communication' report indicated that reporting on climate change in remote areas – often impacting on women and people with disabilities—was 'difficult and costly'. It also found that respondents, in some countries such as Kiribati and Palau, reported 'information fatigue' over climate change. In Fiji, journalists commented on the importance of reporting 'from the field', whether that involved 'showcasing the work of scientists or community efforts' in response to a range of issues around climate change.

Faced with this challenge, the Pacific Media Centre's Professor David Robie developed a plan for a two-week climate change field trip for two postgraduate student/graduate journalists, TJ Aumua and Ami Dhabuwala, to gain firsthand experience of reporting on climate change issues in Fiji. Drawing on previous field trips organised by the PMC and the experience of journalism programmes at institutions such as a 2015 New Caledonia and Vanuatu reportage by Queensland University of Technology, this was an exercise in research and professional development. Fiji was selected for the climate project for logistical and media resource reasons, given that the PMC already had a long-established relationship with the USP regional Pacific journalism programme with available accommodation on the Laucala Bay campus close to the centre of environmental research. Also, USP is currently engaged in a major Pacific-wide climate change baseline media research project involving 16 countries, headed by PMC research associate Dr Shailendra Singh, and there was a synergy between these two initiatives.

Another partner at USP was the Pacific Centre for Environment and Sustainable Development (PaCE-SD), which was

established as a centre of excellence in 1999 for 'environmental education, research and community engagement' in the Pacific region. The director, Professor Elisabeth Holland, co-recipient of the 2007 Nobel Peace Prize, has led the centre in carrying out environmental and climate change research to 'empower [Pacific] people with the adequate knowledge to be able to adapt to the impacts of climate change and to also pursue sustainable development'. Communications officer Sarika Chand was the principal collaborator for the project with PMC.

The PMC project adopted the name 'Bearing Witness', drawing on the Quaker tradition of taking action over 'truth' based on conscience and being present at the sites of injustice. This seemed highly appropriate given that the field trip was seeking to provide an alternative framing of climate change journalism in terms of resilience and human rights. Among the villages where they bore witness, was the mangrove-surrounded village of Daku in the Rewa River delta.

The above article is extracted from the peer-reviewed research article Robie, D., & Chand, S. (2017). Bearing Witness 2016: A Fiji climate change journalism case study. *Pacific Journalism Review* 23(1), 186–206 DOI: <http://dx.doi.org/10.24135/pjr.v23i1.257>

A second phase of the project was carried out in April 2017 in collaboration with Te Ara Motuhenga when two more postgraduate students from the School of Communication Studies, Julie Cleaver and Kendall Hutt, spent two weeks in Fiji, including at the cyclone and landslide devastated village of Tukuraki in Ba, Viti Levu. The full reports from both years of Bearing Witness project can be accessed here at the PMC's Asia Pacific Report: <https://asiapacificreport.nz/category/climate/bearing-witness/>

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Researcher/journalists TJ Aumua and Ami Dhabuwala who took on the 'from the field' Bearing Witness challenge in the pilot year.



Associate Professor Verica Rupar

# AUT IN THE CENTRE OF WORLD JOURNALISM EDUCATION

Contributed by Associate Professor Verica Rupar

The World Journalism Education Congress (WJEC), hosted by the AUT School of Communication Studies last year, will be remembered for the breath of conceptual, empirical and practical insights into the fascinating world of increasingly professionalized, formalized and standardized teaching of journalism across the world. The Auckland congress, an impressive gathering of journalism educators from across the globe (226 participants from 43 countries) aimed to address issues related to the questions of distinctiveness, subject matter, pedagogy, rigor, and the place of journalism and mass communications education within the academy.

Its overall theme of integrity and the identity of J-schools worldwide generated rigorous discussion about the issues relevant for the future of journalism education, from the ever-lasting question about what journalism schools should teach and where the education should be placed within the university environment, to how it relates and should relate to the news industry and the community it serves.

"In this part of the world journalism programs share concerns about how to teach innovation to students while simultaneously teaching the values of journalism", says Associate Professor Verica Rupar, the WJEC Steering Committee Chair.

"We are all preoccupied with the massive change journalism faces as it struggles to reinvent itself for a new generation. Programs in other regions are more concerned, with the development of curricula, the formulation of syllabi, and the inclusion of advertising and public relations as part of the curricular mix. In authoritarian countries ideology takes care about the questions and in the conflict zones teachers are faced with a daily fear how many of their students will be taken to the war zone and how many of them will be killed tomorrow", she says

Three days of discussion about innovative pedagogy, research collaboration, and engagement with social issues highlighted the increasing discrepancy between the sad state of the mainstream media and their struggle to survive and the blossoming of journalism forms and practices at the fringes of the journalism field. The congress debates ranged from the centuries-old question about how to balance vocational training and practical skills with a broader, contextual education to the issues of intellectual independence and contributions to an informed citizenry. A call to develop curricula that go beyond traditional links between journalism education and the news industry emerged as a universal goal for journalism programs worldwide.

Auckland's call for education that serves journalism in its all emerging forms came as a natural extension of the agenda at the first congress in Singapore in 2007. The first WJEC adopted a "Declaration of Principles in Journalism Education," stating that at the heart of journalism education sits a balance

of conceptual-, philosophical-, and skills-based content and "while it is also interdisciplinary, journalism education is an academic field in its own right with a distinctive body of knowledge and theory."

At the congresses in South Africa (2010) and Belgium (2013), this academic field in its own right engaged with the questions of balancing research, teaching, and service to the community. Scholars questioned whether journalism education focused only on content and on journalism product—reporting and writing skills—might be short on delivery.

"We don't know what's going to happen next, but we do know that content is a trap," Jeff Jarvis said in Belgium, alluding to the fact that journalism moved from being a content business to becoming a service, one measured around whether people are properly informed for what they need in their lives.

This was a point of departure for the Auckland congress. More than 220 participants from 43 countries discussed journalism education in light of the transformation of the news industry, media literacy, and the challenges posed by online liberties, in training, in critical thinking, and in ethics. The program included a range of fascinating subjects from j-tweeting and facebooking to journalism and transmedia, surveillance, community engagement, and more specific topics about journalism, journalism research, and education in Africa, Asia, the Pacific, Europe, South and North America, Australia, and New Zealand.

The 2016 WJEC programme included 16 panels, 10 syndicates, 46 paper sessions with 150 presentations, 4 poster sessions, 2 workshops and a number of special events – all aimed at addressing the pressing issues of journalism and journalism education today.

The event was a huge success, in academic, organizational and financial terms.

The Steering Committee – Desna Jury, Alan Cocker, Geoff Craig, David Robie, Helen Sissons, Edelita Clark and Verica Rupar – secured more than \$70,000 in sponsorship from the following organizations: New Zealand National Commission for UNESCO (main sponsor of the 4th WJEC), Asia NZ Foundation, AEJMC, EU Policy & Outreach Partnership, EUNC, JEANZ, MDI, JERAA, NZ Institute of Pacific Research, Oxford University Press, Taylor & Francis Group, EJTA, Orbit World Travel, and Open News GROUP.

The Auckland Convention Bureau estimated the congress had made an estimated contribution to Auckland's regional GDP of more than \$350,000. But, above other goals the 4th WJEC achieved, the most important and long-lasting achievement was that this congress positioned AUT in the centre of world journalism education.

<sup>1</sup> Congress website : <http://test.imran.oucreate.com/congress-news.htm>



Welby Ings speaking at the 2017 Auckland Writers' Festival

## DISOBEDIENT TEACHING: SURVIVING AND CREATING CHANGE IN EDUCATION

Contributed by Professor Welby Ings

When I wrote *Disobedient Teaching* I was not concerned with Performance Based Research Fund (PBRF) brownie points. Instead, I wondered how research might maximise its agency to effect change. I worry about how the pursuit of rankings has come to limit the accessibility of what we write. I was also troubled by my own list of comparatively abstruse writings on pedagogy that never really got into the hands of teachers working at the chalk face. So the book was written out of concern. It took me a career to develop and four years to craft. It didn't set itself up as an ideological bible; instead I attempted to create a thinking tool and perhaps an arm around the shoulder of educators who try to change things for the better.

Turning my back on the rituals of academic writing I imagined myself in a staffroom with 10 minutes left before the bell. I envisaged a colleague I admired who was slumped into the seat beside me with a cup of tea. I suspected that undeservedly, they felt isolated. Then I wrote in short chapters

that meant a teacher could put the book down and pick it up again when they got a moment to do so. I also tried to illustrate it with real stories, with all of their rough edges, failures and sometimes heart rending beauty. These were actual situations that people would recognise from their own teaching – stories that come from our intimate working relationship with other human beings. The book was divided into five sections that considered creativity, assessment, passion, success, and how teachers influence change.

However, what happened after its release I could never have predicted. I thought perhaps if a copy got into the hands of 1000 teachers it would be wonderful, but within two months of its publication the book was already into its third reprint. It was selling widely in the United States and Europe and it had developed an international online and media following. *Disobedient Teaching* was selected for a range of writer's festivals and since its release I have been invited to deliver keynote addresses at over 20 conferences spanning education, leadership, teachers' unions, international

defence force strategy and parenting. However, perhaps more profoundly, I have been asked into the heartland of our country to talk to small community groups. I have been invited onto morning television panels and interviewed on numerous blogs and radio. People e-mail and want to come and talk. I had no idea a book could do this.

The men and women I have met have insights that suggest we need something more as a nation than a second neo-liberally constructed generation of children who have learned strategy and risk aversion instead of creative risk taking. They are worried that attempting to lock learners in to an anxious regime of comparative testing against presumed standards or the performances of others may result in a squandering of potential. They also sense that creativity has to be consciously grown and our under-critiqued obsession with measuring performances when they are not the substance of learning or teaching has become deeply distorting.

But although I wrote about these things, I know that the thinking in this book is not new. Educational reformers like John Dewey and Neil Postman were talking about many of the ideas decades ago. But *Disobedient Teaching* had deeply New Zealand roots and it tried to look at how we have ended up where we have. I consciously sought to craft another kind of voice for research, a voice like ordinary speech, a voice that

balanced objective research with emotional experience ... and through this blend, the book asked questions.

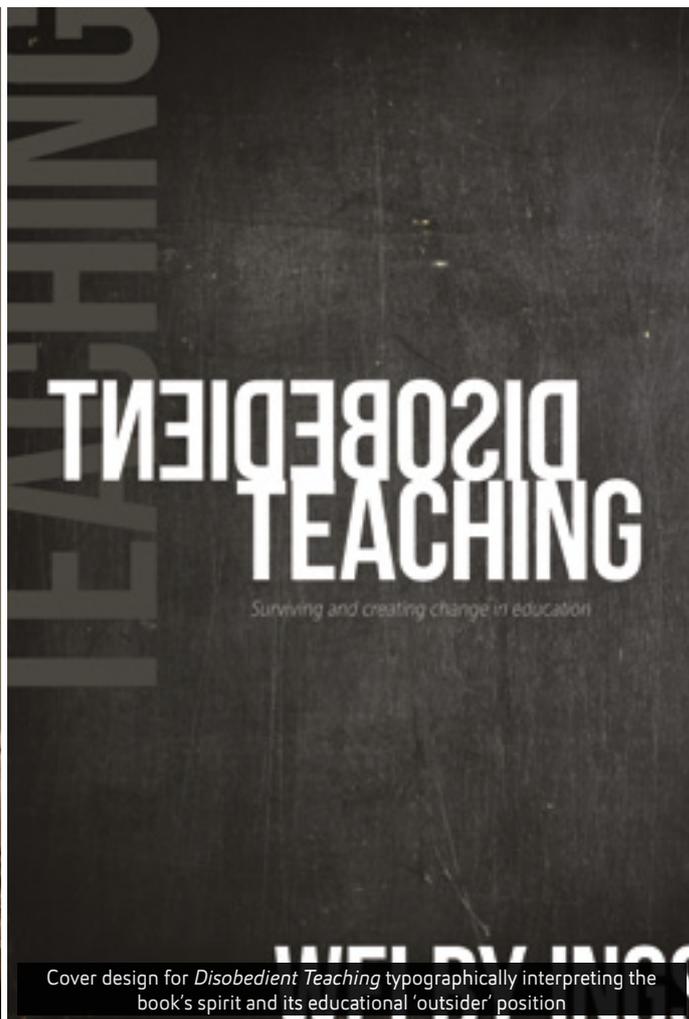
Questioning is at the heart of how I see myself as a thinker. I am haunted by an episode in H. G. Wells' *The Time Machine* where the hero stumbles upon an ancient library. Its shelves contain rows of decaying books whose bindings have fallen to pieces and pages have lost all trace of print. These publications had once been the august products of researchers like him and at the sight of their demise he grieves about the futuristic outcomes of his earnestly published papers.

The episode makes me think about research. It seems to me that a primary aim of academic inquiry is that it critiques and activates change, so that what is drawn into the light takes root. I think of research as a social agent that is written and distributed in such a way that it reaches ordinary people who in turn benefit from it. While framing inquiry in this way may not align with what is rewarded under neo-liberal conceptions of research as an elitist product, the idea feels to me more like an authentic contribution to knowledge.

In the end I remind myself that a PBRF ranking is a device for earning money, it is not an agent for improving the society in which we live.



Welby Ings' address at the launch of *Disobedient Teaching*



Cover design for *Disobedient Teaching* typographically interpreting the book's spirit and its educational 'outsider' position



# ART AND DESIGN

## PACIFIC SPACES: FROM CONTINENT TO SEA OF ISLANDS AND BACK

Contributed by Professor Tina Engels-Schwarzpaul

Shared between neighbours, across swelling and diminishing thresholds, Pacific Spaces expand and contract. But what does it mean to be Pacific when Pacific people migrate and live in diasporas? How do Indigenous modes of knowing and doing space change then? What happens when people, images, objects, buildings and performances are displaced and circulate in global networks? Which new knowledge is generated in the in-between, and what does it mean in the University context? What space for this kind of thinking is available, how can it be accessed or created?

These are current questions driving my research, which occurs mostly within the Pacific Spaces Research Cluster (School of Art and Design, <http://www.pacificspaces.com/>). Like me, most members have spatial/architectural backgrounds and want to focus their research in the Pacific. Recognising that spaces in the Pacific are simultaneously embedded in global relationships and committed to local agendas, we investigate the manifold traditions, thoughts and material cultures that form space from Pacific perspectives. Working in the interface of Pacific and European knowledge traditions, and interlacing European and Pacific philosophies, histories and spatial practices, we aim to transform research about contemporary and customary ways in which Indigenous Pacific people know the world and produce spaces, objects, rituals and performances. We do this, for example, to contextualise the leisure industries' global commodification of indigenous cultures.

There is also a pedagogical angle to this cross-, or trans-cultural commitment and, in this, we build on research I conducted earlier with some colleagues. It explored non-traditional and renegade postgraduate researchers' unique contributions and challenges, generating two edited collections. In *Of Other Thoughts: Non-traditional ways to the*

*doctorate and Of Other Thoughts and Renegade Knowledges*, supervisors and candidates reflect on their experiences with non-traditional PhD theses undertaken from indigenous or black, creative practice-led, feminist, or other critical and/or marginal positions.

In 2016 and 2107, Albert Refiti and I established panels at the 2017 ASAO (Association of Social Anthropologists in Oceania) and ESfO (European Society for Oceanists) conferences in Kaua'i (Hawai'i) and Munich (Germany), and at the 2017 Interstices Under Construction Symposium (AUT). We conducted interviews concerning the deployment of iconic Pacific building forms in the 'revival industries' servicing tourism, leisure and education with key players, like Albert Wendt, Melani Anae and Filipe Tohi in Auckland, and Siosiu Alotaki in Nuku'alofa (Tonga). In Germany, I interviewed Dahlem Museum/Humboldt Forum curators Andrea Scholz and Dorothea Deters and Samoan resident in Germany, Esau Stoffregen. While there, I also advanced our European research networks (universities in Munich, Paris, Marseille and Berlin) towards a collaboration in *The Iconic*, a project for which we intend to apply for Marsden funding. In my 'spare time', I worked with women refugees at the Offener Treff (drop-in) of the FrauenKulturzentrum e.V., Darmstadt, where I learned a lot about the relationships between institutional strategies, on-the-ground practices, informal networks and individual responses. Consequently, I was invited to contribute to a workshop for refugee women run by a local NGO for the city of Darmstadt. It will help the women, experientially and experimentally, to draw maps of their environments to use while navigating the city. Since the workshops contain elements that overlap with AUT research concerning the Auckland diaspora, I have applied for and was granted AUTEK consent for formal research that will benefit



Ulinu'u Fale by Tattersall Studios 1893-1949



Interior of Fale Pasifika at The University of Auckland. Architect: Ivan Mercep, Jasmax; *Tufunga lalava*: Filipe Tohi. Photo: Tina Engels-Schwarzpaul, 2017



Six *lalava* (lashing) patterns by Filipe Tohi on the beams of the Fale Pasifika. Photo: Tina Engels-Schwarzpaul, 2017

not only other refugees in Germany but also migrants in other parts of the world – which brings us back to Aotearoa New Zealand, where similar issues will have to be addressed.

An interest in the generative aspects of space connects these seemingly disparate research concerns: the world we have co-created by our way of life and use of space faces mass migration. There was already a record number of an estimated 60 million displaced people worldwide in 2015, and this will increase significantly. To deal with these challenges successfully, we can no longer rely on zero-sum game theories to divvy up spaces and resources. We need to learn about generative relationships and rethink access and distribution of space. Here, I expect Māori and Pacific thoughts and practices to make significant contributions to academic thinking; contrary to popular perception, these traditions rely on an always already global awareness of migration and integration within Oceania as a Sea of Islands (Ha'uofa 1993).

Atmosphere can generate shared spaces and, as part of my research in that area, I translated German philosopher Gernot Böhme's key texts on Atmospheric

Architectures: The Aesthetics of Felt Spaces (Bloomsbury, 2017; <https://www.bloomsbury.com/uk/atmospheric-architectures-9781474258104/>). The project connected me with institutions like the University of Edinburgh and the Institute for Practical Philosophy (IPPh) in Darmstadt. My engagement in the latter is ongoing and involves a series of seminars in which our working group will engage in a sustained conversation with a group of migrants, exploring their hopes, rewards and difficulties and, reciprocally, ours as Darmstadt residents (which I still class myself as, living in the interstices of European and Pacific realities). Out of this conversation, we hope, will arise first practical suggestions for sustainable solutions in this highly fascinating and sometimes explosive constellation.

All these projects concern the encounter of different forms of thought: how do they affect our perceptions of relationships (between in- and outside, territories and thresholds, difference and power, performativity and embodiment), and which specific conditions are likely to nurture knowledges and practices indigenous to the Pacific, on the one hand, and cross- or transcultural alliances, on the other?

# ERODED FORCES OF TIME: A CONTEMPLATION ON MEMORY AND LOSS AT THE PATEA FREEZING WORKS

Contributed by Dr David Sinfield

David's research is concerned with worker's stories and the typographical poetics of the eroding forces of time, materiality and the elements. Using the abandoned Patea Freezing Works in Taranaki, New Zealand, as a site of consideration, David explores how an interface between what is written, what is thought, and what is lost, might operate as a form of typographic film poetry.

The crossover between poets, artists and filmmakers has created distinctive relationships between words and imagery that have added rich dimensions to traditional, written, lyrical form. The poem film may be seen as a subgenre of film with its fusion of image and spoken or written word, used to create what William Wees called a "Poetry-film" genre. These texts are often characterised by their non-linear narrative style of editing and flow of images and spoken words, although linear narration and editing have been used to good effect in certain instances.

The purpose of David's research is to film and document worker's stories in the form of a creative body of work in a series of short poem films, depicting their stories with photographed and filmed footage of the now abandoned freezing works. In doing so his research is concerned with typographical portraiture and the eroding forces of time, materiality and the elements.

Through layers of time, recollection, photography, film, sound and typographical thought, David asks "What is the potential of spatio-temporal typography to speak for the evocative nature of vacated sites of labour?" Developed through a series of short, typographical portraiture films, David artistically

expands the potentials of typography as a nuanced and temporal voice. David also interviews people that have worked at the freezing works of Patea during its time of production and occupation, so that they can share their stories during the time of when it was in operation.

The recorded interviews work with imagery (photography and filmed footage are also David's work) taken from the abandoned site to work in synergy. These works form the collection of short poem films expressing the visual content to create portraits of labourers who worked in the now abandoned cool stores and freezing works at Patea. In doing so David's research asks, "What is the potential of kinetic typography, sound, imagery and the content of recorded speech to capture the poetic nature of remembered space?" Using interviews with people who have worked at the Patea freezing works, David develops a series of poem films that typographically capture not only the paralinguistic nature of speech, but also emotional resonances within the participants' recollections.

<sup>1</sup> Typography is the art and technique of arranging pre-designed typefaces in order to make text legible and aesthetically pleasing.

<sup>2</sup> Wees has noted that "a number of avant-garde film and video makers have created a synthesis of poetry and film that generates associations, connotations and metaphors neither the verbal nor the visual text would produce on its own" (1984, p. 109).

<sup>3</sup> Kinetic (or spatio-temporal) typography refers to type that may be read within a moving image text. Emphasis is placed on the animation of the word as well as its formal typographic qualities.



The Patea Freezing Works wharf building (Photograph, David Sinfield, Patea 2016).



Artistic rendered photograph showing the inside of one of the plant rooms at the freezing works. (Photo: David Sinfield, Patea 2016). The poem film can be accessed at: <https://vimeo.com/135933709>



Artistic rendered photograph showing the outside of the cool stores at the freezing works. (Photo: David Sinfield, Patea 2016). The poem film can be accessed at: <https://vimeo.com/140362695>





**COLAB**



*Frequency Colour* (2013)  
Custom video hardware & multi-channel sound, Starkwhite Gallery, NZ

## THE AMPLIFIED EXPERIENCE

### Contributed by Dr Clinton Watkins

Dr Clinton Watkins' research focus resides dually within advanced technical and conceptual domains. In his research Clinton investigates affect through the construction of combined immersive experiences of sound, colour and scale. The creative outcomes of his practice-led research explore the characteristics, structures, phenomena, and processing of sonic and visual material. Installations incorporate found and custom-made audio and video hardware to create repetition, distortion, duration and form, distilled via a minimalist sensibility. Clinton has exhibited in solo and group exhibitions throughout New Zealand, Australia, Europe, Asia and the United States and his creative practice is represented by Starkwhite Gallery, Auckland.

Within the field of contemporary sound, in his research analogue inputs are returning alongside digital technologies. Both technologies can produce rudimentary forms of sound and more varied complex phenomena such as pure tone, noise, feedback and glitches. Clinton's research involves the connection of this form of sound with video imagery. Within his artwork, these mediums converge and then co-operate. These kinds of combinations – the scale, contextualising of environment and the volume – play an important role in finding potential extremes and limits for audiences. Structural concepts relating to duration and sequence are addressed through the exploration of repetition, computer-sequenced forms and improvisation. Aspects of formal music composition (such as tempo, rhythm, tone, phrasing, harmony and dissonance) also act as a model for organisation.

In the short video documentary, *The Many Moods of Otomo Yoshihide*, Japanese sound artist and musician Otomo Yoshihide describes his expansive practice as being "in between categories". This notion of being in between categories, namely art and music and their many sub-categories, is the position Clinton's artwork operates from in the production of his creative output. This position allows his practice to drift between both, doctrines of fine art and music by creating artwork that can operate in art galleries and music performance arenas, i.e. as large-scale audio visual installations within the context of an exhibition space, and live performances and publications of sound and video artworks. The position of 'being in between' allows greater media diversity and the creation of new artworks combining art and music concepts and methodologies.

Clinton's studio-based research is primarily located within a technological context where current and obsolete mediums merge, and involves combining analogue and digital mediums with custom-designed hardware such as the AV5-Error video distortion device and modular sound synthesis systems. Conceptually the work created is derived from the aim to create a sonic and visual experience through repetition of sound, colour and looped video. The artwork seeks to potentially remove and isolate a given audience from the rigours of everyday existence by offering a sensory space for a viewer to 'step off' and drift into. In addition, the intention of the work is to encourage an open interpretation of the artwork where memory, reflection and physical awareness play freely.

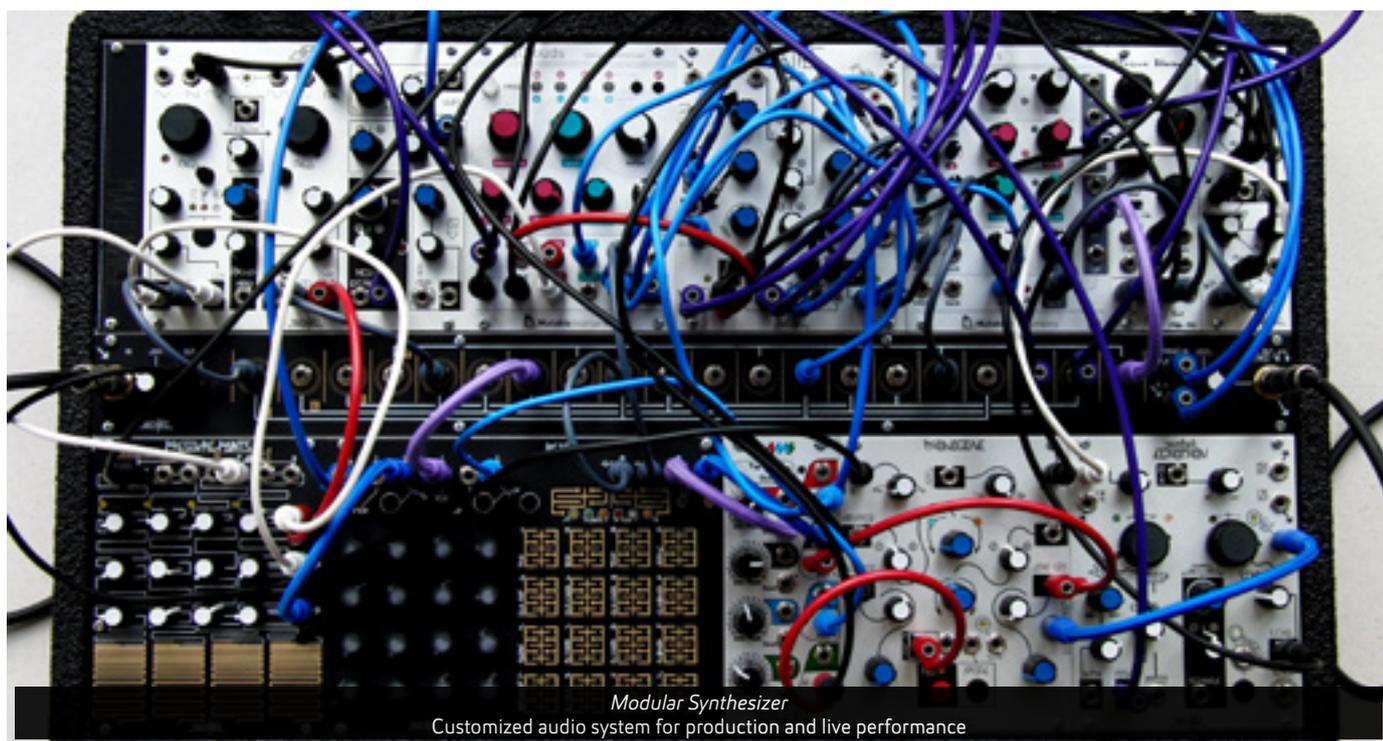
In parallel to his visual practice, Clinton is a practicing experimental musician who regularly produces and performs. Clinton's creative interests and skills also reside within the traditional fields of visual arts such as painting, sculpture, printmaking, and photography. However, his primary focus is on making work using advanced electronic mediums as an exhibiting sound and moving image artist. Clinton's artworks are regularly exhibited, both locally and internationally with a majority of exhibitions being held at significant contemporary art galleries and museums.

Clinton actively collaborates with artists on sound and moving image projects and installations. Recent collaborations have been with local artists Jim Seers, A.D. Schiering and Seung Oh and has also collaborated with internationally acclaimed installation artists Santiago Sierra and Li Xiao Fei. Clinton is regularly invited to exhibit his work at leading local and international contemporary art galleries and museums.

Currently, Clinton works with documentary-based formats. He is a core member of the collaborative group Field Recordings with artist's Li Xiaofei, Jim Speers, Zixuan Guo and Tu Neill. Field Recordings latest project Let the Water Flow is a moving image artwork that investigates the landscape of the Yangtze River delta from its shoreline in Shanghai and aboard the massive freighters that connect China with the world. The project takes its lead from the journalism of Joseph Conrad, who explored the psychological relationship that exists between seafarers and the maritime environment. The Let the Water Flow project comprises of a multi-channel video and sound installation. The work has been exhibited at the Rockbund Art Museum in Shanghai in May-August 2016 and in December 2017 will be presented at the Biennial Cosmopolis#1, The Centre Pompidou, Paris, France.

Clinton's sound compositions Invisible Narratives creates and explores narratives that are purely sonic and imageless, utilizing the field recordings captured between 2012-2016 for the Let the Water Flow project. Clinton utilizes the collected sound in application with his newly established composition techniques, customized electronic hardware and software for the production of compositions and performances that focus upon the macrocosm of a particular location. The resulting sound work is both an artefact, that is published and a performance piece. Clinton is in regular contact with internationally acclaimed sound artist Francisco Lopez, discussing sound, publication and performance. As a result of these conversations Clinton has recently published his work through Francisco's e-publication Super\_Sensor <http://super-sensor.org/>.

Clinton has over twenty year's experience performing as a solo artist and collaboratively with both national and international artists within the field of experimental sound. Clinton has collaborated and performed with acclaimed atonal guitarist Tetuzi Akiyama, free jazz drummer Shoji Hano and the legendary saxophonist Peter Brotzmann, all renowned for their significant contribution to the field of experimental and modern music. Most recently, Clinton has been implementing new custom-made hardware/software technologies and reconsidering and advancing performance procedures and formats. Currently, Clinton is formulating a new mode of performance for his work, where the focus shifts from the performer to the content and sequence of sound forms. The format of this type of performance requires a particular space that is capable of generating a low light environment, that is temperature controlled and houses a multi-channel high-fidelity sound system. The purpose of the performance is to evoke a visceral sense of isolation within another environment via sound.



*Modular Synthesizer*  
Customized audio system for production and live performance



# COMMUNICATION STUDIES



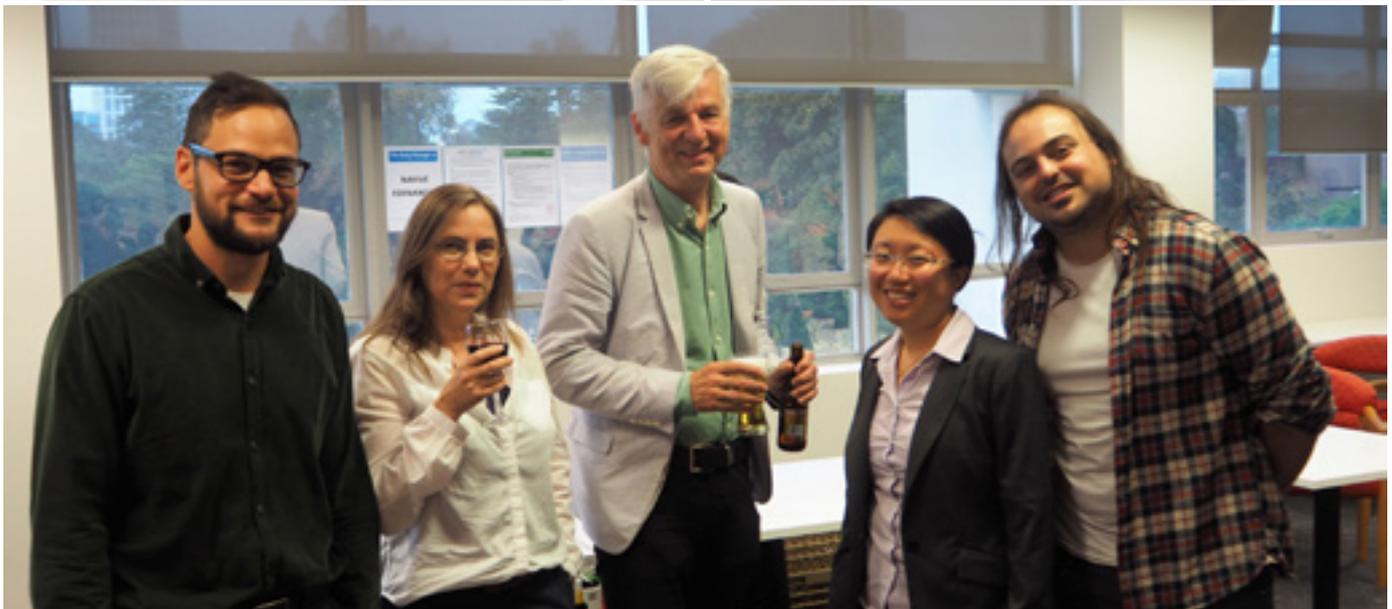
Professor Sigrid Norris speaks about her writing



Professor Theo Van Leeuwen gives an overview of the 6 books, drawing connections between Professor Norris' academic writing and her poetry



Launch of 6 books in 2016



Some MRC members enjoying the party

# INFLUENCING THE WORLD WITH MULTIMODAL RESEARCH

## Contributed by Professor Sigrid Norris

2016 was a busy year for Professor Sigrid Norris, too busy, in fact to summarise easily in a few paragraphs. The biggest highlight of the beginning of the year, however, clearly was the launching of 6 of her books.

In May, Emeritus Professor Theo Van Leeuwen flew from Sydney to Auckland to launch the paperback edition of *Interactions, Images and Texts* edited by Sigrid Norris and Carmen Maier, four Volumes of *Multimodality* edited by Sigrid Norris, and a book of ethnographic poetry titled *Love and Separation* authored by Sigrid Norris, at AUT in the DCT Faculty Office – Eastwell Lounge. The night before the book launch, Professor Norris held a poetry reading for invited guests at the Time Out Bookstore in Mt Eden.

Right after the book launch, the discussion series held regularly in the Multimodal Research Centre, now well-known across the globe, so that scholars from faraway places such as Brazil, Norway, Sri Lanka, or Sweden Skype in to take part, continued.

In August, Professor Norris was off to Europe to present first findings about the large family videoconferencing project conducted at the Multimodal Research Centre. For this project, researchers at the centre video recorded New Zealand families Skyping with far-away family members.

First, Professor Norris presented the paper 'Multimodality and Attention in Family Videoconferences' at the 1st International Sociolinguistic Conference in Budapest, Hungary. Here, she made connections with scholars interested in multimodality, which resulted in an application for an Erasmus + (a European Funding Programme) for academic staff and student exchange. This application was successful and the Erasmus + was awarded in 2017. After the conference talk, Dr. Tamás Eitler (Eötvös Loránd University, Budapest, Hungary) wrote on the Multimodal Research Centre's Facebook page 'it was a really thought provoking paper -- thank you for sharing...'

Sigrid Norris' next stop was Catania, Sicily, where she presented more findings from the same study. Her paper at the 6th Critical Approaches to Discourse Analysis across Disciplines Conference was called 'Identity production in family videoconferences: A multimodal analysis'. While in Catania, she met up with other researchers from Europe, and also with Dr. Philippa Smith from AUT.

From Italy, Professor Norris flew to Stockholm and drove to Linköping, where she had been invited to deliver the higher seminar "Horses, Humans, and Multimodality:

Using a Multimodal (Inter)action Analytical Approach" at Linköping University on 21 September. The higher seminar was followed the next day with a workshop on Multimodal Transcription, where one of the primary questions was 'How do we transcribe horseback riding lessons?' This had been a question that Professor Norris had asked herself years ago, when she had studied the multimodal interactions during horseback riding lessons in America. One of the results of that study had been the development of a new concept, which she had called Touch/Response-Feel, meaning that in riding lessons, the instructor teaches not only how to touch the horse correctly, but also how the rider has to feel the response of the horse. Back then the riding instructor that Professor Norris was working with admitted 'Yeah. How do you do that? How do you tell someone how an orange tastes if they have never tasted one before? How do you teach someone how to touch if they have no idea what you are talking about, and how do you explain how they are supposed to feel something they have never felt before? That's exactly what I am confronted with each time with a student.' He clearly liked the concept and found it very useful for thinking through what and how he taught.

In December, Professor Norris co-authored two more presentations on findings from the videoconferencing project, which were delivered by Dr. Pirini and Yulia Khan at the 8th International Conference on Multimodality in Cape Town, South Africa, and publications on videoconferencing began to appear in 2016/17.

Much of the Multimodal Research Centre's strong dissemination of findings in regards to the videoconferencing projects was due to the fact that Professor Norris mid-year had received \$20,000 funding from DCT for the project (Inter)actions via videoconferencing technology. This funding not only allowed for quicker dissemination that showcased DCT's strength in the area of Multimodal Action and Interaction Research, but also resulted in further successful funding applications, one of which was Professor Norris' Marie Skłodowska-Curie Senior Fellowship, applied for during 2016 and awarded in 2017. Professor Sigrid Norris will take up the Marie Skłodowska-Curie Senior Fellowship at the Freiburg Institute for Advanced Studies (FRIAS) in Germany for 6 months from 1. February to 1. August 2018, and 2017 and 2018 certainly do not seem to be slowing down for her.

More about Professor Norris' research can be found here: <http://www.sigridnorris.com/>



Professor Wayne Hope with his book "Time, Communication and Global Capitalism". Photo: Jane Matthews

## TIMES OUT OF JOINT

Contributed by Professor Wayne Hope

Time is all around us yet it is constantly elusive. What does it mean? Is a general definition possible? Professor Wayne Hope argues that we must distinguish between four kinds or epistemes of time. Epochality refers to marked periods of history and how they might be determined. Time reckoning occurs when we measure, sequentially, the passing of time (via calendars and clocks) and the acceleration of time toward instantaneity (via the telegraph, satellites, fibre optic cables).

Temporality has to do with the joining of past present and future within individual personalities, institutions and societies. Coevalness encapsulates the idea that people with radically different understandings of time and history ought to communicate with each other on equal terms. Conversely, coevalness is denied when dominant notions of time and history are imposed on others. These epistemes of time, in various combinations, shape ruling institutions, political-economic systems, and social life.

Professor Hope's research addresses two major themes: the political economy of media-communication and our changing experiences of time. In the former context he has examined media ownership concentration and its effect on content, broadcasting and communications policy along with news media representations of economic issues. In the latter context he argues that today's hyper-mediated world of acceleration and immediacy weakens our understanding of history and the long term future.

Professor Hope brings these two central research themes together in his book *Time, Communication and Global Capitalism* (Palgrave 2016). Substantively, this work explores the following propositions. Different epistemes of time (epochality, time reckoning, temporality, coevalness) shape the material world and social consciousness. Contemporary global capitalism can be understood as a multifaceted regime of real-time. Global capitalism is riven by conflicts and crises of time which play out across the areas of financial dealing,

labour relations and democratic state governance. Collective opposition to global capitalism requires synchronicities of political action and counter-constructions of the future.

Reviews of the book have been very positive. Robert Hassan stated that Hope had 'analysed with great acuity and thoroughness the fundamentals of the all-important intersection of between temporality, communication technologies and the super-charged logic of capitalism which has turned our world upside down'. Graham Murdock observed that this was a 'cogently argued and deeply researched book' and a 'virtuoso work of synthesis, provocative and path breaking'. For Nick Dyer-Witherford 'Wayne Hope's *Time, Communication and Global Capitalism* [(is)] a work of deep scholarship and profound political implication'.

On the basis of these evaluations, Dr Hope received the Dean's Award for Research Excellence in December 2015 (Faculty of Design and Creative Technologies) and a full professorship in November 2016. Professor Hope's new research project considers the relationship between time, ecology and capitalism in an epoch of anthropogenic climate change. His earlier research has been published across a range of academic journals including *Media, Culture and Society*, the *International Journal of Communication and Time and Society*.

Professor Hope is joint editor of the international on-line journal *Political Economy of Communication*. He is co-director of the Journalism, Media and Democracy Research Centre (JMAD), he comments regularly on media related issues on radio and television and writes opinion pieces for the Daily Blog.

Professor Hope's extra-curricula interests include cricket, hard rock, alt-country, stand-up comedy and combative debate about current affairs.

# DOING RESEARCH THAT HELPS PEOPLE SHARE AND DEVELOP KNOWLEDGE

Contributed by Dr Jesse Pirini

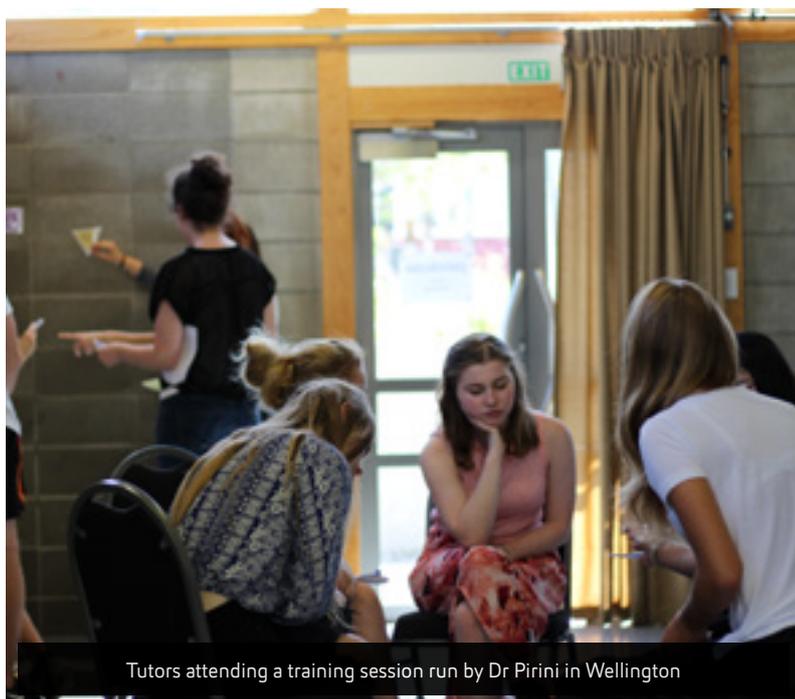
Peer tutoring is popular at all levels of education, and demonstrates great benefits for students and tutors alike. Dr Jesse Pirini has been training tutors for many years, and has studied how tutors and students build relationships and share knowledge. In 2016 Jesse was supported by the Beeby Fellowship to complete a book on tutoring, which helps teachers to train high school students to be peer tutors. Clarence Beeby was an influential figure in developing New Zealand's education system, and the Fellowship named after him helps educators produce innovative resources to enhance classroom practice and support learners.

Jesse's book *Peer Tutoring A training and facilitation guide*, the result of the Beeby Fellowship, translates research into practical and accessible tools for tutors. The book is meant to provide teachers with resources to enhance their school-based peer tutoring programmes, and to help tutors learn techniques to use with different types of students. While many schools run peer tutoring programmes, they often do not provide much training. This book aims to fill that gap for schools, and for community and iwi groups who are seeking to support students.

In another practical application of his research, Jesse works with the Lake Taupō Forest Trust and Ngāti Tūwharetoa based trusts to develop an education programme in the Taupō/ Tūrangi region. During 2016 Jesse supported the Trust's pilot education project. During the pilot, young students from the region attended holiday education workshops, while older students attended study workshops. The pilot

was a success, and the Trust provided funding to expand it in 2017. In addition, Jesse and the Trust successfully applied for a Curious Minds grant from the Ministry of Business and Employment to support the growing programme. Throughout 2017 students from the region will attend STEM-focused education workshops, and older students will receive one-to-one tutoring. The Trust will also organise a whānau science day at the end of the year. Students will share what they have learned with their whanau. Science businesses in the area will also showcase their work. The Trust hopes to encourage and support more students into science based businesses in the region. Further support for this goal comes from tertiary education scholarships, and internship opportunities for students in research institutes like Scion and at the Trust itself.

As a Postdoctoral Fellow in the AUT Multimodal Research Centre, Jesse takes a multimodal approach to study social interaction. He develops theoretical and methodological tools to study action, while applying them on research projects to test their usefulness. All actions are multimodal, but until recently researchers usually focused on one aspect of multimodal actions. Modes like language, gesture and gaze have been studied separately. Along with other researchers in the AUT Multimodal Research Centre, Jesse works to bring together all modes into analysis. Multimodal perspectives are fast growing in prominence as they help advance our understanding of social interaction. They also lend themselves to practical applications, like peer tutoring and STEM-focused education workshops.



Tutors attending a training session run by Dr Pirini in Wellington



Dr Pirini visiting a harvesting site in a forest administered by the Lake Taupō Forest Trust

# THINKING ACROSS ACADEMIC BOUNDARIES

Contributed by Professor Geoffrey Craig

It has always been difficult to pin down Professor Geoffrey Craig to a single research interest. He has always preferred to take advantage of academic freedoms and has roamed broadly in his research, curious about a diverse range of subjects across communication studies, journalism, and cultural studies. This was particularly evident in 2016 where a variety of research projects were published, spanning from political communication, slow journalism, citizenship, to environmental communication, and public participation in online media.

During the year Geoffrey's monograph, *Performing Politics: Media Interviews, Debates and Press Conferences (Polity)*, was published. The book engages with general public consternation about the 'political games' that are played between politicians and journalists in interviews, leaders' debates and press conferences and argues that we need to recognise the legitimate play of power in such interrogative exchanges. The book explores the contestable nature of both language and democratic politics and it argues that the primary task of journalists is to keep the political 'open'. The book includes a number of case studies that dissect the varied performance skills of President Barack Obama across televised debates, diplomatic press conferences, and his appearances on the daytime television talk show, *The View*.

Geoffrey was also able to continue to explore his interest in the political importance of 'slowness', a subject that he initially investigated in his earlier co-authored book (with Wendy Parkins), *Slow Living* (Berg 2006). Responding to an invitation from Dr Megan Le Masurier from the University of Sydney, who was interested in highlighting the emerging slow journalism movement in an edition of the journal *Journalism Practice*, Geoffrey contributed an article titled "Reclaiming Slowness in Journalism: Critique, Complexity and Difference." In the article he argues for forms of slow as well as fast journalism given that our experiences of modernity are not singular experiences of speed and geographical dislocation but increasingly complex negotiations of different temporalities and spatial contexts.

Under the expert guidance of Associate Professor Verica Rugar, the School of Communication Studies successfully hosted the World Journalism Education Congress during the year. Geoffrey chaired and presented a paper at a panel on the theme of "Journalism and an Informed Citizenry" and gave a presentation that provided a brief overview of theorisations of citizenship and discussed the ways they have relevance for journalism educators. In particular, he discussed the ways that theories of citizenship that emphasise expressions of difference have significant ramifications for journalistic

practice, including processes of 'listening' in reportage. For the panel Geoffrey was fortunate enough to be able to bring together leading global scholars on the subject: Emeritus Professor Kaarle Nordenstreng from the University of Tampere, Finland, Professor Ivor Gabor from the University of Sussex, and Associate Professor Kerry McCallum from the University of Canberra.

Issues about the environment and everyday life have also attracted Professor Craig's interest over a number of years and in 2016 his article, "Political Participation and Pleasure in Green Lifestyle Journalism," was published in *Environmental Communication: A Journal of Nature and Culture*. This article examines the reportage of green lifestyle practices across the online sites of major British newspapers: how such practices are attributed with meaning, including their engagement with the concept of pleasure and association with political participation. The study primarily reveals that the pleasures associated with sustainable living are often marginalized, and instead an ethical consumer is commonly posited as someone who is variously cognitively deficient, worried about the environmental consequences of their everyday behaviour, or concerned about their inability to realize their desires to engage in sustainable lifestyle practices.

The year also saw the publication of a volume titled *Citizen Participation and Political Communication in a Digital World*, edited by Associate Professors Alex Frame and Gilles Brachotte (Routledge 2016). The volume was based upon a conference that was previously held at the University of Burgundy, Dijon, France in 2014 where Geoffrey had been invited to be a member of the conference's scientific committee and to speak at the closing plenary panel. Geoffrey's concluding chapter in this volume provides an overview of the contributions from the conference, observing that such work serves the important function of taking us beyond traditional narratives about the roles of online media and social networking sites that either singularly champion their emancipatory power or denounce their erosion and trivialization of off-line politics and citizen engagement.

The singularity and variety of these research activities nonetheless cumulatively represent an attempt by Geoffrey to think across traditional conceptual and academic boundaries, exploring, for example, the relationships between political and popular cultures, the politics of sustainable everyday life, issues of civic identity and forms of public participation, and forms of online and offline activity. In our changing world the traditional categories we have used to divide our world are increasingly questioned and challenged, and communication and media are at the heart of such changes.



Professor Geoffrey Craig with his latest book "Performing Politics"



Dr Matt Mollgaard at AUT

## YES, MEDIA MATTER!

Contributed by Dr Matt Mollgaard

Matt's research platform is based in radio and also informed by over 25 years working in New Zealand radio in a number of roles. As a researcher, curriculum leader and teacher, he sees his research stance as problematizing the media in order to extract nuances, meanings and useful theoretical knowledge from our critical communication structures, so that we can understand and use our media in positive ways.

His key foci are radio as a resilient and socially central media form, government policy around radio and the media, radio and music culture and the future of media systems in New Zealand, the Pacific and further afield. He is one of a handful of radio researchers in New Zealand, and is actively engaged with his peers in New Zealand and around the world in the larger research contexts that are developing in the field of media studies.

Matt's recent work has examined national music cultures and radio using the radio network 'Kiwi FM' to demonstrate political, cultural and economic conundrums for governments and broadcasters when attempting to define and monetize national music through media policy. Uniquely, he has used the 'grounded theory' methodology in this work as it necessarily had to deal with multiple data sources, including

interviews, official documents, news reports, and government correspondence to create explanatory theory from a very large and diverse data set. This is part of his ongoing interest in using official documentation and archives to understand and critique media structures and cultures – using radio as a starting point for this research.

As he argued in the introduction to a collection of essays on contemporary radio studies that he edited for his book 'Radio & Society' (2012), radio is still the most ubiquitous mass media, and the political and structural challenges it faces today reveal much about how the media is developing in a period of rapid change. More recently Matt has diversified his research into critiquing government policy around Radio New Zealand International, the key international news and current affairs source for the South Pacific Islands. He has also produced new research into the connections between a renaissance in New Zealand music and New Zealand radio, and he has published a definitive account of Kiwi FM as a failed 10-year experiment in public-private partnerships in the media: 'Pop, Power and Politics: Kiwi FM and the "Third Way" in New Zealand', *MEDIANZ: Media Studies Journal of Aotearoa New Zealand*, Farnsworth, J. & Fisher, K. (eds.), 2016, 12 (2), and 'Radio New Zealand International: Reporting

the Pacific in tight times', *Pacific Journalism Review*, Cass, P.& Robie, D. (eds.), 2017, 22 (2).

He also initiated, organized and ran the 'Agenda 2020: New Zealand Media Futures' symposium (<https://agenda2020nz.com/>), a two-day event featuring politicians, academics and media workers discussing possible futures for the New Zealand media.

While his work to date has been generally focused on New Zealand as a unique media environment, it is appreciated around the world. Matt has attended multiple international conferences to present his research, including 'The Radio Conference: A Transnational Forum' at Utrecht University, the Netherlands, in 2016. He also presented critical new research into issues facing Radio New Zealand International at the World Journalism Forum in 2016. He recently edited a special

edition of *MEDIANZ: Media Studies Journal of Aotearoa New Zealand* on the future of the New Zealand media and is working on a project that is examining the disestablishment of the Minister of Broadcasting portfolio by the current New Zealand government.

Matt believes it is important for academics, media workers, politicians and the public to engage critically with the media around them, as the rapid pace of change, the vast amounts of good and bad information being constantly produced and transmitted and the positive and negative potentialities of media influence have never been more critical to dealing with big issues such as political turmoil, environmental crisis and economic equality. Matt works from the proposition that the media does matter and that we all share responsibility for making it matter for all of us.



Matt Mollgaard speaking at The Radio Conference in Utrecht in the Netherlands in 2016



**ENGINEERING, COMPUTER AND  
MATHEMATICAL SCIENCES**

# RESILIENT SLIP FRICTION JOINT: A CUTTING EDGE TECHNOLOGY FOR EARTHQUAKE AND TSUNAMI PROOFING OF STRUCTURES

Contributed by Dr Pouyan Zarnani

Dr Pouyan Zarnani joined AUT in 2015 as a lecturer in Structural Engineering within the Department of Built Environment Engineering. He obtained his PhD degree from University of Auckland (UoA) where he was appointed as a Postdoctoral Fellow. His research studies could be summarised in three distinctive chapters.

Primarily, his research focus was in developing a new design approach associated with the potential brittle, mixed and ductile failure modes of timber connections under parallel and perpendicular to grain loading directions in different engineered timber products. As part of this research and development programme led by the Structural Timber Innovation Company of New Zealand (STIC), he has authored a design guide for timber rivet connections, which has been used for Christchurch rebuild and design of several buildings in New Zealand such as Trimble Building, Carterton Event Centre and Kaikoura District Council Bldg. The guide eventually is being considered for adoption in the next edition of the New Zealand NZS 3603 Timber Standard, where he is a member of the technical committee.

In 2015, he created an innovative seismic resistant Resilient Slip Friction Joint (RSFJ), winner of Spark's \$100k Challenge 1st Prize. In the following year, he has been successful to be the science leader of a MBIE funded project in collaboration with Professor Pierre Quenneville from the University of Auckland as co-science leader. As part of this four-year project, a full-scale 3-storey building reinforced by the RSFJ technology will undergo rigorous testing to simulate a severe earthquake event. This platform RSFJ technology has been successful in securing over \$4M research grants so far (with an AUT contract of \$1.5M). This cutting edge technology has the capacity of dissipating earthquake energy as well as self-centring with no post event maintenance to minimize the damage and the residual drift of the structures.

"With a clear global increase in frequency and impact of seismic events, engineers' efforts have been focused on the development of techniques which not only provide life-safety, but also aim to minimise damage so that buildings could be reoccupied quickly with minimal business interruption and repair costs," Dr Zarnani says. "RSFJ technology provides a cost-effective and sustainable solution as not only is there no need for costly post-tensioning systems for structural self-centring (as is common practice), but also it is maintenance free and there is no need for any connection component replacement after earthquakes, which is a serious risk for aftershocks," Dr Zarnani says. "This new Damage Avoidance RSFJ technology can be considered as a 3rd generation of seismic solutions after the state-of-the-practice Low Damage and traditional High Damage systems." He believes that, through the successful completion of this research programme, the RSFJ technology will have a global impact on

the building industry, since it can be used in all types of new and retrofitted structures (low- to high-rise) either in steel, timber or concrete, and in particular, in the countries which are seismically active like those located on the Pacific Ring of Fire. The technology has been recently adopted for the Nelson Airport new terminal.

As the next chapter of his research studies, Dr Zarnani is looking forward to developing a new damage-avoidance technology to protect onshore and offshore structures against wave and tsunami impacts, given that the risk of large waves and tsunami damage is not less significant than the risk of earthquake damage. Every year worldwide, considerable damage is imposed on marine and coastal structures due to severe waves and tsunami impacts with significant casualties and economic loss. Moreover, such structures play multiple roles in the built environment. It is evident that oil and gas platforms and jackets, heavy cranes and tanks in ports, bridges and pipelines are all critical and costly infrastructures supporting the lifelines of communities, facilitating the transport, and providing the access to energy sources. Therefore, their protection against such natural hazards is essential – also from environmental impacts (e.g., oil spills) – especially in vulnerable countries such as New Zealand with tsunami risk.

"It is so exciting to work within such a collaborative research team at AUT from a wide range of disciplines," Dr Zarnani says. He believes through the development of these new research programs at AUT addressing the severe natural hazards in NZ (earthquakes and tsunamis), more international recognition will be provided for AUT in terms of its capacities in new research areas, new technologies and innovations.



Resilient Slip Friction Joint (RSFJ) technology



Successful testing of the RSFJ technology adopted as hold-downs for the Nelson Airport new terminal 8m tall columns (Dr Zarnani, left)



Professor Klette explains results of research by his PhD students Hsiang-Jen Chien and Noor Saleem on trinocular vision in a test-vehicle, achieved while working at Wuhan University in 2016

## FROM PIXEL COUNTING TO SEEING MACHINES IN LESS THAN 40 YEARS

Contributed by Professor Reinhard Klette

In 1979, Professor Klette chaired a multi-disciplinary project at Jena University, in collaboration with the Carl Zeiss company at Jena in Germany. The goal was the development of an “intelligent microscope”, combining the traditional strength of the Carl Zeiss company at Jena in optical instruments with the then just emerging new technology of digital image processing. Microscopic images were scanned, digitized into pixel by pixel, and read into the memory of a computer. Programs designed for analysing those data had to detect individual objects, such as a cluster of chromosomes, segment it into meaningful parts, and extract numerical values for a condensed representation or interpretation of the original microscopic data. This was still in the pioneering days of digital imaging. Three problems of those days were:

(1) Digitized images form arrays of pixels. These digital patterns differ in geometry and topology from the well-known Euclidean space. Non-parallel straight lines do not intersect anymore in general just in one point; digital straight lines may intersect in multiple pixels. A neighbourhood of a pixel can not “shrink” arbitrarily into a smaller neighbourhood; the pixel size defines a lower limit, and so forth. Worldwide, researchers started to investigate the geometry and topology of digitized images.

(2) Computer technology (e.g. processing power and human-computer interfaces) were not yet properly supporting the processing of images. Basically, the computer screen was still

non-existing. Image data were visualized by printing alpha-numerical symbols, one on top of the other, thus visualising gray-levels of pixels by simulating different shades of gray. The array data structure of digital images was not yet supported by parallel processing hardware. The first array processors appeared for testing computer architectures.

(3) Recorded image data were not yet really satisfying. Due to low resolution or sensor noise, the scanned images were impacted by various degradations. Image processing, aiming at transforming a given image into a “better” image, became a very popular discipline in the early days of computer-based imaging.

Motivated by those problems, Professor Klette contributed in the 1980s and 1990s to the study of digital geometry and topology (of digital images), to the design of parallel processors, and to the design of image operators.

These studies led to monographs, co-authored with the late Professor Azriel Rosenfeld (a pioneer of digital imaging in the USA; he is remembered by a special award at the biennial International Conferences on Computer Vision), with Dr Jozef Mikloško (who later became a deputy prime minister of the Czech and Slovak Federative Republic), and with the late Dr Piero Zamperoni (a pioneer of digital imaging in Germany; he is remembered by a special award at the biennial International Conferences on Pattern Recognition).

After starting at the Technical University at Berlin in 1990, later moving on to the University of Auckland in 1996, Professor Klette increasingly focussed his work on subjects in computer vision, i.e. the understanding of the 3-dimensional world based on recorded image or video data. Collaboration with the German Air and Space Institute (DLR, the department first led by Professor Emeritus Herbert Jahn, now by Dr Anko Börner) supported research in panoramic imaging and photogrammetry.

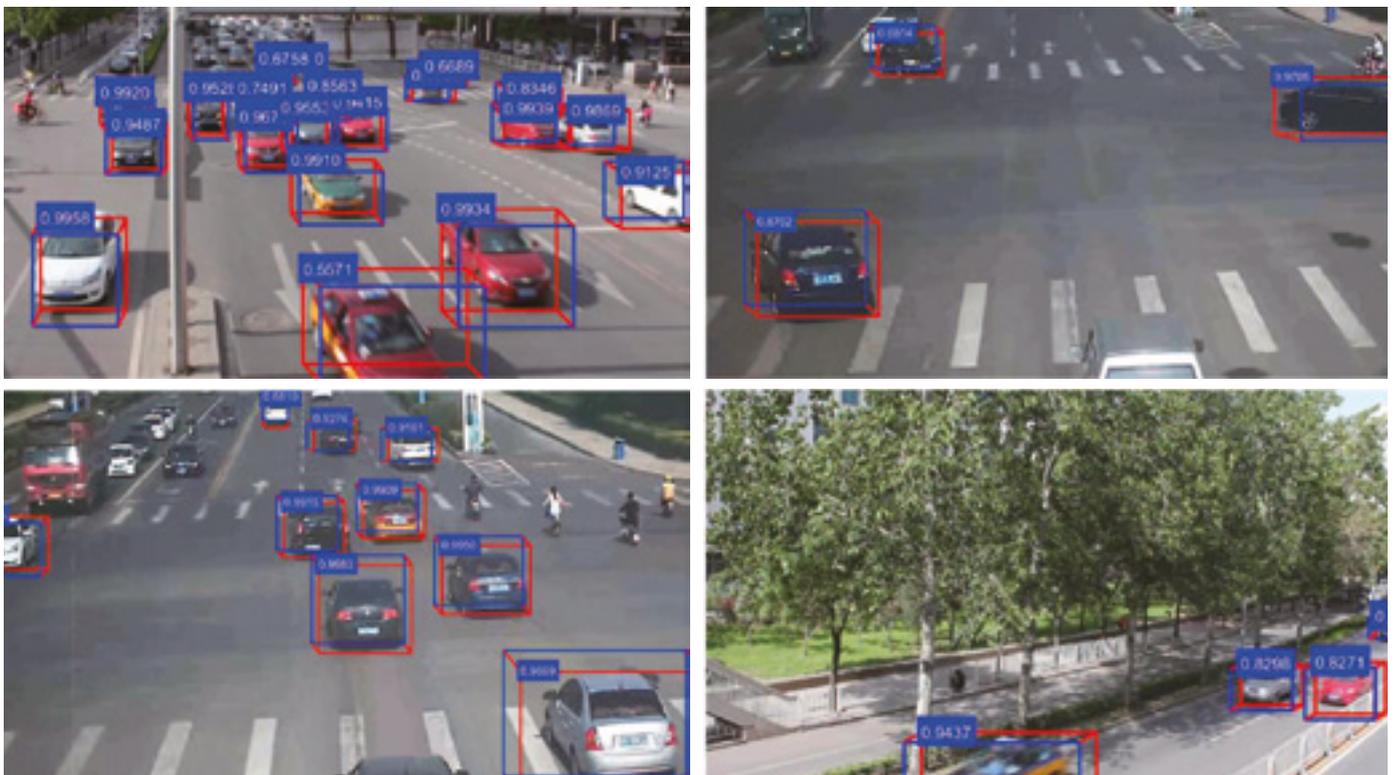
Camera and computer technologies now support the recording and processing of colour video data, and new applications of computer-based imaging create new challenges. However, the followed approaches typically did not lead fully to the expected success; computer vision remained to be a relatively small area in computer science or engineering. But new signs appeared on the horizon. For example, computer vision was tested increasingly in the automotive industry as a possible component for contributing to traffic safety.

In 2006, Professor Klette spend a 6-month sabbatical at Daimler A.G. in Germany, working with Dr Uwe Franke and his team on subjects related to vision-modules for Mercedes cars. As it happened, 2006 turned out to be the year when stereo vision started to mature into a serious tool for the car industry. Recorded stereo image data were mapped into useful disparity maps due to progress in the algorithmic design for stereo matchers. Still the automotive industry did not yet consider developments towards autonomous driving as a serious option.

Between 2008 and 2012, developments in computer hardware (e.g. availability of GPU processing) and in algorithm design (e.g. deep learning) caused a kind of a revolutionary change: machines started ``to see''. Computer vision is now a reliable component for controlling processes, robots, vehicles, and so forth. This became fully visible as a social event with the rise of autopilots for vehicles.

Professor Klette works at AUT since early 2015. He has been elected as a Fellow of the Royal Society of New Zealand. He established a Centre for Robotics & Vision (CeRV), and research towards autonomous driving is a major activity in this centre (besides other robotics and imaging activities). There are close collaborations with partners in China. In 2016, two PhD students of Professor Klette, Hsiang-Jen Chien and Noor Saleem, worked (for example) for two months at Wuhan University, there introducing trinocular stereo vision into the autonomous vehicle program.

In 2017, Professor Klette was awarded the Helmholtz International Fellow Award (of the Helmholtz Society in Germany). This award is given to outstanding senior scientists and research managers based outside Germany who have excelled in fields relevant to the Helmholtz Association, including science management at large international research institutions. The Helmholtz Association – a union of 18 scientific-technical and biological-medical research – is the largest scientific organisation in Germany. Recently, Professor Klette was selected to be a Guest Professor of Wuhan University (an honor they provide for more than 100 years), and received the Quancheng City Friendship Award of Jinan, Shandong province, China.



This image was created by Qin Gu, visiting PhD student of Prof. Klette, within a joint project between AUT, the University of Electronic Science and Technology, Chengdu, and the Shandong Academy of Sciences, Jinan. Surveillance data at road intersections are analysed not only for tracking of all the moving objects, but also for classifying the motion characteristics of those objects.



The Vaipua Inlet causeway bridge supports

## HARVESTING CLEAN ENERGY FROM THE PACIFIC OCEAN

Contributed by Dr Craig Baguley

Economic opportunities and challenges are arising from changes to traditional electric power systems. These changes are significant and will increase in the future with the adoption of electric vehicles and the installation of electricity generation systems based on renewable energy sources. The nature of the changes, and the opportunities and challenges, vary and have societal influences.

An obvious challenge of the increased adoption of electric vehicles in power systems is the loading effect on electricity distribution network assets. However, the opportunity exists to utilise energy stored in Electric Vehicle (EV) batteries to stabilise the network and improve efficiency. Currently, negotiations are taking place on comprehensive investigations into the impact of EVs on power systems. This is an area of strong interest in the power industry at the moment.

Historically, Pacific Island economies have been burdened by very high costs of electricity, arising from a heavy reliance on diesel fuel based generation. Relatively new forms of electricity generation, based on renewable energy sources, promise to relieve this burden, and heavy investment has taken place in solar based generation systems. This has been a partial success, qualified by the fact that increased reliance on solar based generation has left Pacific Island communities

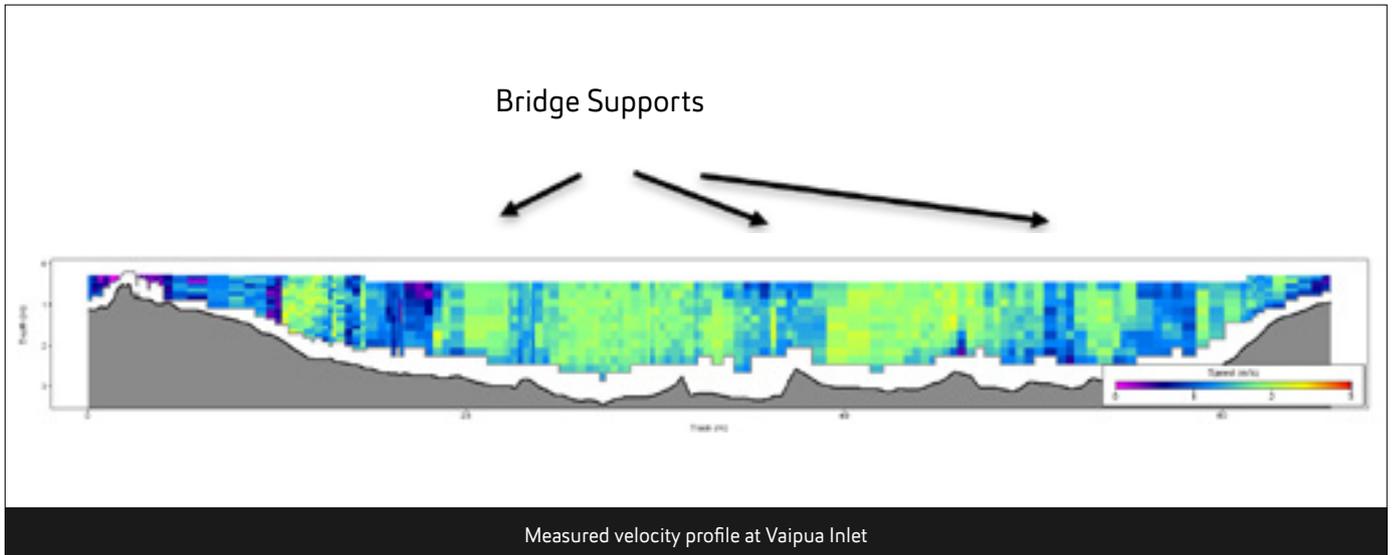
highly vulnerable to power blackouts. One cause of this vulnerability is passing clouds that result in sudden drops in electricity supply, and a mismatch with electricity demand. Power blackouts can have serious economic consequences and are very inconvenient for economies based on tourism. Therefore, strong efforts are being made to find solutions to these problems.

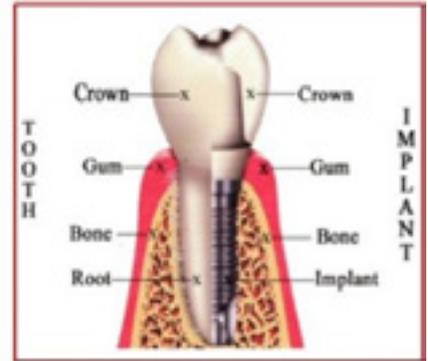
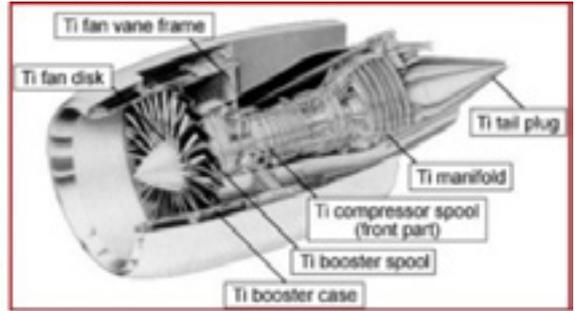
A possible solution is electricity generation based on predictable tidal sea currents flows. Through placing turbines in regions of high sea current flow, generation can occur. Tonga Power Ltd identified a potential tidal stream generation site on the island Vava'u at Vaipua Inlet and requested that AUT undertake a characterisation study, with funding aid from the International Union for the Conservation of Nature. Accordingly, a team of engineers from the AUT department of Electrical and Electronic Engineering visited the Vaipua Inlet site, undertaking water velocity measurements using sophisticated Acoustic-Doppler based equipment, and deploying and retrieving level meters that took long term measurements.

The island of Vava'u has a population of approximately 15 000, and Vaipua Inlet is next to Neiafu, the main town. The inlet has a water surface area in excess of 2 million m<sup>2</sup>, yet is fed through a very narrow entrance just 60 m

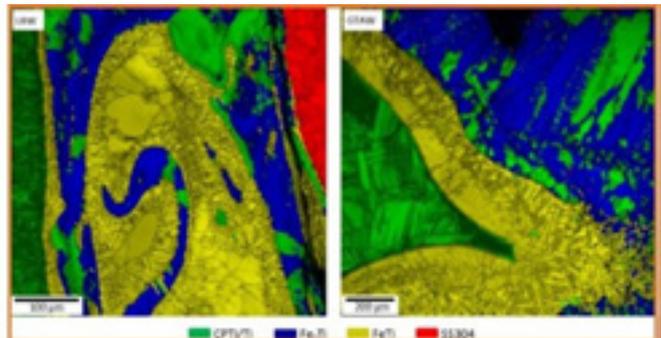
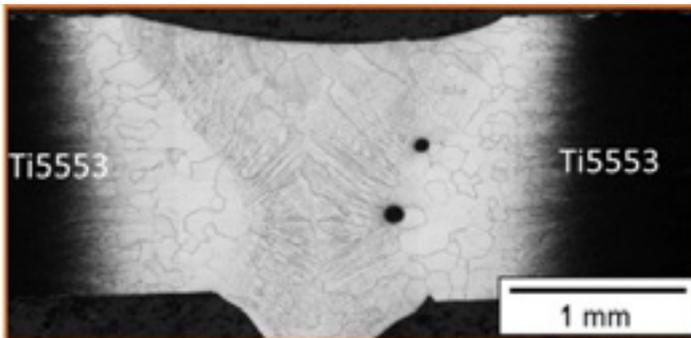
across. This constriction leads to a very high current flow at the entrance, which varies with the tide. Further, the time duration for which tidal current flow is low, during tidal change, is very short. This is very advantageous for tidal stream based generation, allowing predictable, consistent power to be generated, with only short time periods when generation is low. In addition, marine life in the Vaipua Inlet has already been significantly damaged through civil

engineering work, so impacts on the marine ecology through placement of turbines would be limited. Based on feasibility work undertaken by the AUT team, it was identified that an average power of 40 kW could be obtained from the Vaipua Inlet site. Currently, AUT engineers are investigating the possibility of increasing the current flow rates further, which would increase average power generation levels and improve feasibility.





Top left: SR-71 Blackbird. Middle right: dental implant. Top right: aircraft engine. Bottom left: car exhaust. Bottom right: hip replacement



Top left: electron beam welded titanium. Top right: laser welded and TIG welded titanium. Bottom: dissimilar welded copper-steel

# TITANIUM ALLOYS – FROM SPACE TO HUMANS

Contributed by Associate Professor Timotius Pasang

Titanium and its alloys have a great combination of strength, low density (light) and excellent corrosion resistance. Aside from that, they are also biocompatible – a material or device that does not harm living such as human tissue. The abovementioned characteristics make titanium very attractive for applications in the aerospace, automotive, chemical, marine, sporting equipment, and for accessories and biomaterial such as implants.

In the aerospace area, the most remarkable story is the “all-titanium aircraft” SR-71, the Blackbird! It was first built in 1966 using Ti-13V-11Cr-3Al alloy. The aircraft was painted in black and was designed to fly with a cruising speed of Mach 3 at altitude over 80,000 feet (24 km). This marks it as the most successful story of titanium, however the aircraft is no longer manufactured.

The history of biocompatible titanium started in the mid-1950s when Professor Per-Ingvar Brånemark successfully implanted a titanium tube on a rabbit bone, as he later discovered the tube had integrated with the bone, hence, the term Osseointegration. The discovery led to the amazing idea of titanium implants in humans which he started in the 1960s. Titanium has since been used extensively for hip and knee replacement, bone fixation, dental implants and many other purposes. As aforementioned, titanium is a popular material also used for jewellery – for necklaces, bracelets and even engagement rings and wedding rings.

Because of titanium’s unique properties, uses and applications, A/Prof. Tim Pasang decided to dedicate his time into research on the metallurgy and manufacturing of titanium alloys, particularly the mechanical property-microstructure relationship. More specifically, he is working on the welding, machining and forming characteristics of titanium alloys among other metals. He is also investigating dissimilar welding of titanium, e.g. one form of titanium to another titanium, or titanium to other metals. The knowledge of this is crucial due to complexities of components such as landing gear, engines, etc. which may require combination with other materials to improve functionalities. Another reason for dissimilar welding is the potential to make products more affordable without compromising the quality. The outcome of this research may open many windows of opportunities of dissimilar welding of titanium usage.

Tim Pasang’s research has attracted interest from various universities and institutions such as Akita University and Osaka University in Japan, Lehigh University and University of Wisconsin in the United States, Universitat Politècnica de València and University of Cadiz in Spain, and the Institute of Advanced Materials, Fraunhofer, Germany. With his network, Tim had initiated a 3-month internship program with Technical University of Berlin (TU Berlin), where he has managed to send three students every year since 2014.

In July 2017, Yuan Tao – one of his PhD students – graduated from AUT, following investigations on weldability of a new titanium alloy known as Ti5553. The alloy is used as the landing gear material for the latest Boeing aircraft, Boeing 787 “Dreamliner”. Although not clearly specified, it was confirmed that the landing gear of the latest passenger aircraft, Airbus 350, is also made of titanium alloys. With the increase of titanium usage in aerospace (amongst other areas), there is a huge potential for new research opportunities. Currently Tim’s research is expanding to machining and additive manufacturing (AM) of titanium and other metals, which involves three PhD students.

Associate Professor Pasang was awarded a Loewy Visiting Professor by Lehigh University, USA where he had enjoyed winter in the United States in the past five years to carry out research on titanium welding, deliver a number of lectures and joint supervision of PhD students with Prof. W.Z. Miziolek. This international collaboration also involved PhD student supervision at Lehigh University. One of them graduated in 2015 and another one is currently working on laser welding of titanium Ti-10-2-3. He was also awarded the Japan Society for the Promotion of Science (JSPS Fellow) in 2013/2014 to conduct research on laser welding of titanium and other metals at Osaka University, and Akita University Japan. Recently (July 2017) he was awarded a JWRI International Joint Research Collaborators grant (JIJRec) from JWRI (Joining and Welding Research Institute), Osaka University to conduct laser welding research at Osaka University in February 2018.

Currently he is the Head of Department of Mechanical Engineering and Director of the Engineering Research Institute (ERI) that is comprised of researchers with national and international reputations in their respective engineering fields. ERI has also been successful with various grant applications to New Zealand’s Ministry of Business, Innovation and Employment (MBIE), National Science Challenges (NSC), and many others.



Associate Professor Timotius Pasang



# BUILDING THE SKA - THE BIGGEST DATA PROJECT IN THE WORLD

Contributed by Dr Andrew Ensor

Dr Andrew Ensor is the Director of the High Performance Computing (HPC) Research Laboratory at AUT. His research interests include HPC and Graphic Processing Unit (GPU) computing, distributed and mobile system, algorithms, concurrency and computer graphics. Andrew is also the Director of the New Zealand Alliance, a group of 35 New Zealand academic and industry partners working on the Exascale computer design for the Square Kilometre Array (SKA) Project.

The SKA is the largest mega-science project of the next decade, and once built will be used for the broadest range of science research of any facility worldwide. Its design presents numerous computing challenges, particularly in its central signal processor that will process terabytes of incoming data every second, and in its science data processor with Exascale compute requirements. It represents numerous firsts for New Zealand, being the biggest Big Data project in the world, the largest Science project NZ has ever been substantially involved in, one of the largest NZ involvements in an international ICT collaboration, and what is becoming the longest term NZ academic-industry project collaboration.

The New Zealand team, being led by Andrew, is taking significant roles in both the central signal processor and the science data processor. The HPC Research Lab includes five fulltime staff working to tackle the SKA computing challenges as well as numerous part-time contributors. Their research ranges from firmware design for correlators, signal processing, pulsar timing techniques, imaging pipeline software, power efficient compute node design, and middleware for orchestrating an Exascale system. Andrew himself contributes to research in necessary bit precision and optimisations for the imaging pipeline, algorithm

improvements, and optimisations for hardware accelerators such as GPUs and many core processors. In this work, the team closely collaborates with CSIRO (the federal government agency for scientific research in Australia) and Swinburne University in Australia, National Research Council Canada, the Universities of Cambridge, Manchester and Oxford in the UK, ASTRON in the Netherlands, and INSA Rennes in France. Through the SKA Project Andrew also maintains close relationships with many multinational computer companies including Altera/Intel, Hewlett Packard Enterprise, Kalray, Nvidia, and Oracle.

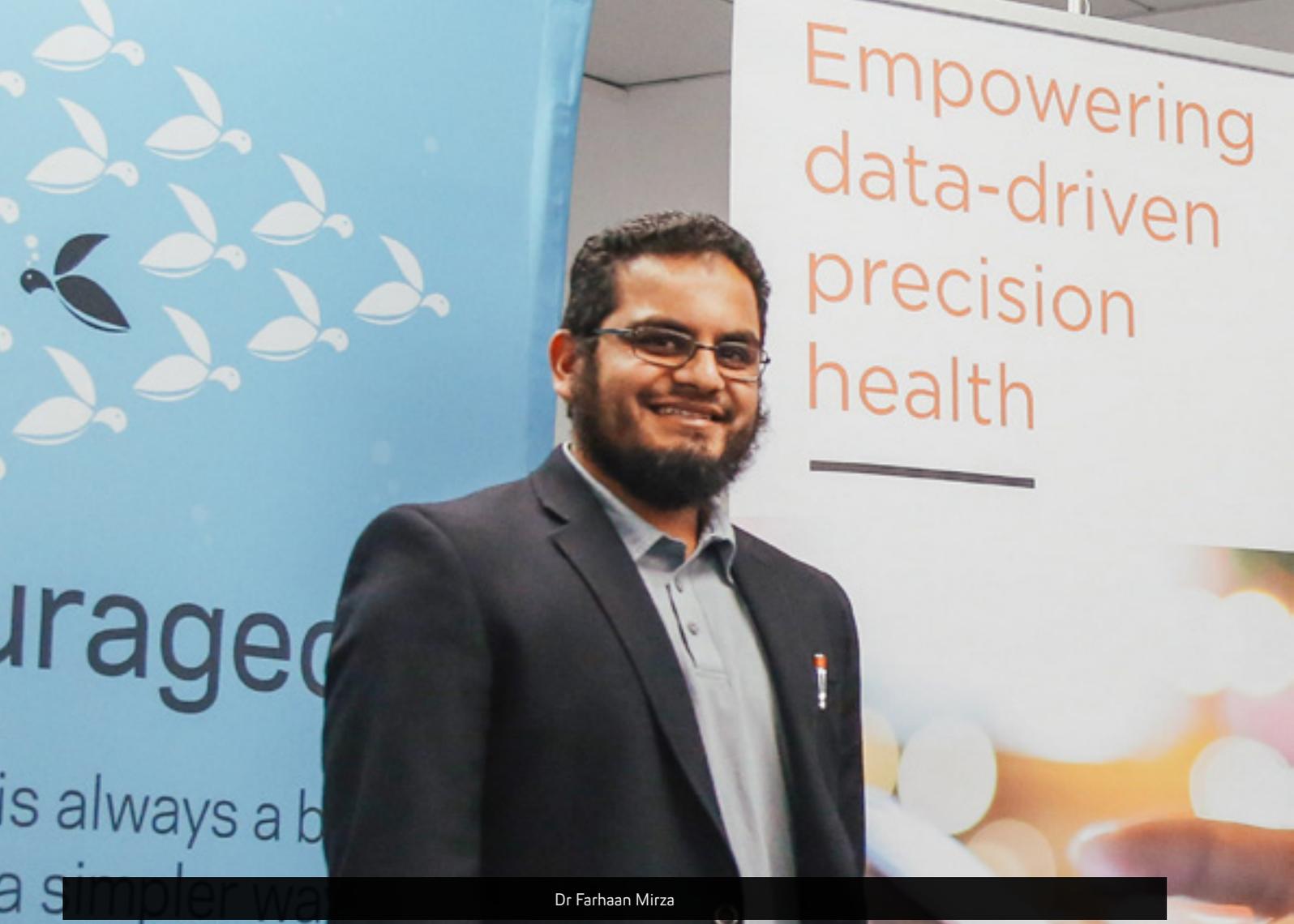
Over the past three years Andrew has been the principal investigator for well over two million dollars in external research grants, a frequent invited speaker and keynote speaker at conferences, and represents NZ at numerous SKA events internationally. His work has often been profiled in print, television and radio media, including a guest interview in February 2017 with Kim Hill on Radio NZ National, a TVNZ Prime News appearance, and a highly commended award for Innovation in Research at the New Zealand Innovation Awards in 2016.

Currently the team is focused on gearing up for the construction of SKA phase 1 between 2019 and 2024, with a total budget of €674 million, and will then start to look toward the design of SKA phase two which will be an order of magnitude larger yet.

When the demanding SKA schedule allows Andrew also researches in other areas of Computer Science and Mathematics, particularly with his former PhD students. They include publications in computer vision algorithms and two recent journal articles in graph optimisations.



The High Performance Computing Research Laboratory team



Dr Farhaan Mirza

## DATA SCIENCE FOR ENABLING PRECISION HEALTH

Contributed by Dr Farhaan Mirza

AUT Lecturer in IT & Software Engineering Dr Farhaan Mirza works on the interface between information systems, healthcare, and data science. His recent research focused around Internet of Things (IoT) and data science applications in healthcare. He is an active member of Data Science Research Group (DSRG).

Big data in the healthcare industry continues to expand. Health data constitutes electronic health record data, patient-generated activity data, clinical trial results, and IoT or sensor data. These data are being generated at ever increasing volumes. Individual segments of data can have life-or-death importance, but many health scenarios fail to aggregate data effectively to gain insights for the wider care processes. When these data sources are aggregated, new opportunities can be identified for advanced analytics, precision treatments, and higher quality care. This data can be actively analysed to assist with decision-support for clinicians, family, and individuals. Furthermore, using IoT devices or sensors these decisions can be verified and activated, for example calling the ambulance in emergency or changing the dose of a medicine.

Farhaan has been awarded more than one million dollars in

external research funding by the Precision Driven Health (PDH) Initiative to work across many projects that are coherent with his research agenda. One of these projects aims to achieve an aggregated data store of primary and secondary health data to develop a hospital admission risk prediction (HARP) model. The HARP model will be integrated into primary and secondary hospital information systems to showcase hospital predictions scores.

The outcome of this project will provide the foundation for the development of additional models leveraging the integration framework. This project's outcomes could introduce valuable changes to the medical practice. For example, a typical scenario during diagnosis may involve a precision health query that would aid decision support for the clinicians. Alternatively, the management or health planners could run a predictive model which would highlight and forecast expected risks. Finally, analysis of primary data in a District Health Board (DHB) context could provide insights into areas of preventative health, for instance a patient's eligibility for health programs can be discovered.

# COMPUTING CYBER SECURITY AND INTELLIGENT SURVEILLANCE

Contributed by Associate Professor Wei Qi Yan

Associate Professor Yan's expertise is in digital security, surveillance, privacy and forensics and his research at AUT is related to intelligent surveillance. He has published the first monograph in Intelligent Surveillance by Springer, UK with two editions. This book entitled "Visual cryptography for image processing and security" resolves the problems which play a pivotal role in visual cryptography and envisions the future of visual cryptography. The book was organized according to the pipeline of surveillance systems: surveillance data capturing, data encryption and transmission, object detection and recognition, biometrics, visual event computing, surveillance alarm making, deep learning and supercomputing, and so forth. This book reflects the latest developments in digital surveillance.

At present, Dr Yan is leading the Computing and Cyber Security (CCS) Research Group at AUT, he is the Deputy Director of the Centre for Robotics & Vision (CeRV). He is working on homomorphic encryption, visual secret sharing, image encryption and decryption, blockchain, penetration testing, differential privacy, intelligent surveillance, event computing, etc.

The project homomorphic encryption in visual secret sharing emphasizes on homomorphism in abstract algebra for sharing image as a secret, the merit of homomorphic encryption is the computational operations in plaintext could be mapped into the cyphertext correspondingly. Homomorphic encryption establishes the specific mapping from cleartext to ciphertext.

Blockchain is used for online payments, smart contract, and security services. Blockchain for the online auction project is associated with the elliptic curve digital signature algorithm (ECDSA) from cryptography. In blockchain, a public key encryption is used to create a key pair, which includes a private key and the only public key, the private key is used for the transaction signature.

Penetration testing is being investigated from the viewpoints of cloud and mobile computing. A group of students have graduated from AUT for their contributions to the projects in virtual desktop security, attack graphs, and penetration testing for SQL database system, etc.

Privacy is a data sharing problem of surveillance videos and social media. Differential privacy is regarded as one of effective ways to achieve the anonymity, diverse and closeness of data privacy. Privacy of social photos and surveillance videos is expected to be protected by modelling the privacy from the viewpoint of computational intelligence while sharing the favourites in an undergoing project.

Visual events are demanded to be detected and recognized from surveillance videos. Deep learning is expected to be utilized for identifying the abnormalities of vehicles and pedestrians through human gaits and gestures so as to provide alarm making for real-time monitoring.

Dr Yan collaborates actively with past colleagues in Singapore,

United Kingdom, the United States and has a long-standing collaboration with the Chinese Academy of Sciences, where he received his PhD degree in visual security. In 2016, Dr Yan was invited to revisit the Institute of Computing Technology (ICT), Chinese Academy of Sciences (CAS), as an excellent alumnus to introduce his overseas research and teaching experience for his friends and peer classmates. The China Computer Federation (CCF) is located at ICT/CAS, Beijing, China. He is an adjunct professor of the State Key Laboratory of Information Security (SKLOIS), CAS, China.

Preventing digital crimes is one of the most urgent issues for governments around the world, and research in the area is vital. Dr Yan has a leading role in the key forums for this field. He is the editor-in-chief (EiC) of the International Journal of Digital Crime and Forensics (IJDCF), and a founding chair of the International Workshops on Digital Crime and Forensics (IWDCF). Based on the IJDCF journal, the international workshop on digital crime and forensics (IWDCF) has been organized annually. The workshop has been jointly organized and sponsored by the Computer Forensics Expert Committee of the Chinese Institute of Electronics, the Key Laboratory of Intelligent Networks and Network Security of the MOE, China, and the State Key Laboratory of Information Security (SKLOIS), China. The international flagship conference IEEE Advanced Video and Signal-Based Surveillance Conference (AVSS) 2018 will be held at AUT, and, owing to the successful bid for this IEEE conference, Dr Yan will be the program chair.



Professor Wei Qi Yan

# PRACTICAL APPLICATIONS OF ARTIFICIAL INTELLIGENCE

Contributed by Professor Ajit Narayanan

Artificial intelligence (AI) has suddenly become fashionable, to some extent due to claims being made by some large tech companies that new technologies, such as “deep learning”, will revolutionise machine learning so that deep learning machines will provide intelligent insights from big data that will compete with, if not outperform, human intelligence in areas that have so far proved difficult, such as visual and speech processing.

Such claims for AI have been made before. They show how much AI has shifted from its original starting point in the 1950s as a technology to help humans make the world a safer and healthier place to a technology that is a competitor to, and possible replacement of, human intelligence.

Ajit Narayanan, who spent 25 years at the University of Exeter as lecturer, senior lecturer, Dean of Science and Professor of AI before moving to AUT, adheres to the original vision of AI being used for social and human benefit, not as a replacement or competitive technology. His first contact with AI was in his undergraduate degree programme in computer and linguistic sciences in 1970. During the last 47 years, he has seen numerous claims for AI come and go. In his view, AI may not actually be a goal that can be reached in itself. Instead, “today’s AI is tomorrow’s computing/engineering” is a view that indicates that AI is to computing as cosmology is to astronomy. Cosmology is where blue sky thinking and concept formation take place, leading to hypotheses and experiments that result in growth of knowledge in astronomy. Once cosmological concepts have been tested and placed in theoretical and empirical contexts, they cease to be cosmology and become part of astronomy. Similarly, Narayanan has witnessed the same patterns in AI and computing/engineering over the last 40 years. Once AI demonstrates that certain concepts can be realised in a computation form (e.g. a chess playing machine or GO playing machine that produces results that we can interpret as human-like, or driverless cars), they cease to be part of AI and become mainstream computing or engineering. To state that AI has been achieved is therefore not possible in this scenario.

Narayanan’s research continues to progress on several fronts in line with his view that AI is that part of computing/engineering where blue sky ideas are tested for computational effectiveness, with consolidation in four specific areas during 2016: (i) data reliability, (ii) hybrid architectures for machine learning, (iii) nature inspired computing; (iv) biostatistics and bioinformatics.

(i) “Garbage in, garbage out” is a well-known cliché that expresses the view that the output from data analysis is only as good as the data used for the analysis. Yet, there continues to be lack of appropriate metrics for quantifying the reliability of data. In machine learning, for instance, data can be labelled with an objective class value, such as individual patient medical data being labelled with a disease, and the task for

“supervised” data analytics is identify the most important features related to the disease. In many other cases there may not be a label at all, and the task for “unsupervised” data analytics is to find patterns of similarity among the cases. There are no accepted methods for determining the reliability of the data, however, so that the outcomes of the analysis can themselves be estimated for reliability. This is a particular problem for unsupervised machine learning using big data, and is an under-explored area of both statistics and machine learning, particularly in the case of psychometric (i.e. survey/questionnaire) data. Narayanan has continued to develop his own reliability formula based on signal-to-noise ratios (SNRs). One of the advantages of this approach is that specialist software is not required. Another advantage is that outcomes from data analysis (such as principal component or regression analysis) can now have an additional measure of reliability to statistical significance. This has led to two publications in the international journal *Big Data* on reliability of big patient satisfaction data in healthcare contexts. The idea of SNR is central to smart technologies in digital camera image processing, where pixels are evaluated and cleaned on the basis of how much they vary in relation to neighbourhood pixels rather than being directed by some supervisor as to what they represent. The AI idea being tested here is the hypothesis that SNRs may form part of next generation machine learning techniques that need to be supplemented with data reliability measures to provide assurance that data mining outcomes are robust.

(ii) Narayanan continues to work on novel hybrid architectures for machine learning in bioinformatics with former PhD students. The purpose is to explore novel forms of emergentism for discovering stable patterns in grossly under-determined and noisy data, such as those found in gene expression data (tens of thousands of measurements for a hundred or so patients). Together with Ed Keedwell (a former PhD student and now Senior Lecturer at the University of Exeter), he proposed a novel architecture where a genetic algorithm is used to formulate candidate gene expression rules in the form of chromosomes and an artificial neural network to evaluate those rules, with output error and other analysis used to rank the chromosomes for selection, mutation and crossover (Fig. 1). A particularly interesting feature of this research, which appeared in the *International Journal of Data Mining and Bioinformatics*, is its application to multi-objective optimization, where two different objectives, such as small size of gene set and biological plausibility of this gene set, need to be optimized.

Also, with Waseem Ahmad (now at Toi Ohomai Institute of Technology), he has written papers on the application of immune system concepts to machine learning, particularly in the area of data overfitting and time series data.

(iii) Computer antivirus systems (AVSs) have difficulty in

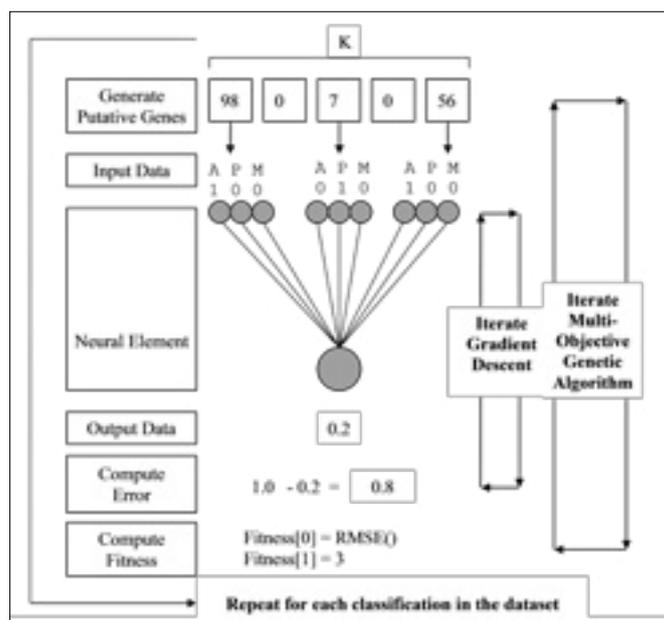
identifying minor variants of known viruses without explicit signatures for such variants. By the time such signatures are generated and down-loaded to our AVSs, it may be too late to prevent infection. About four years ago, Narayanan started a research programme to relate malware code with real biological viral code to produce ‘innoculation-based’ AVS signatures. The hypothesis being tested is whether knowledge of real virus structure can help us in our fight against the increasing amount and severity of malware attacks against our computers. One of his PhD students, Vijay Naidu, has continued with this exploration of efficient and effective string-based techniques for the automatic generation of signatures for the identification of some or all new variants of computer viruses and worms. Such analysis led to ‘signatures’ which, when visualised through bioinformatics software, showed structural differences between worms (Fig. 2) and viruses (Fig. 3).

The extra structure of worms (Fig. 2, yellow sheets) may signify the code that allows worms to propagate without needing to be triggered by a computer or user action, as is required of a virus. However, there needs to be much more work undertaken to demonstrate that the hypothesis relating computer to natural viruses can lead to genuine advances in our knowledge of how to deal with computer malware.

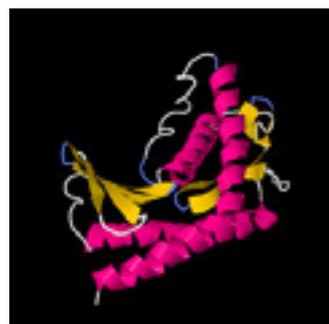
(iv) Narayanan’s bioinformatics, biostatistics and health informatics expertise continues to attract multidisciplinary cooperation and external consultancy income, with projects for Fisher & Paykel Health (hypnogram data) in Auckland and CFEP pty (patient experience data) in Australia as well as inclusion as statistical consultant on internal and external grant proposals in the clinical sciences. His statistical expertise has also been used by the Australian Dental Association, Pharmacy Guild Australia and CFEP pty, for whom about a dozen confidential statistical reports have been written during this PBRF period. Of more interest locally, Narayanan was co-author of a paper “Environmental factors and risk of aggressive prostate cancer among a population of New Zealand men – a genotypic approach” which was published in *Molecular Biosystems*, with other authors from University of Auckland’s Faculty of Medicine and Health Sciences, Auckland Cancer Society, University of Auckland’s Liggins Institute and the Experimental Cancer Medicine Centre at Cardiff University, UK. Narayanan undertook the statistical analysis with his PhD student, Vijay Naidu, and the article was referred to as one of the ‘Hot Articles in Molecular Biosystems’ and featured on the front cover (<http://pubs.rsc.org/en/journals/articlecollectionlanding?sercode=mb&them eid=946f148a-b432-4ab9-9328-209e0e10a630>). Narayanan also collaborates with researchers in AUT’s Health Sciences and recently provided some statistical consultancy to a paper “Measuring mindfulness: Applying generalizability theory to distinguish between state and trait”, published in the journal *Mindfulness*.



Professor Ajit Narayanan



Visual representation of the multi-objective neutral-genetic algorithm execution



Visualisation of signature for a computer worm



Visualisation of signature for a computer virus

# RESEARCH INTO WHAT SOFTWARE ENGINEERS DO: TEAMS, PRACTICES, ANALYTICS, EVIDENCE

Contributed by Professor Stephen G. MacDonell

*He aha te mea nui o te ao? He tangata, he tangata, he tangata: What is the most important thing in the world? It is people, it is people, it is people.*

When asked about his interests Stephen describes himself as a 'behavioural software engineer'. Essentially this means that he is (increasingly) less interested in the nuts and bolts of software development, the specific technologies, the tools, the programming languages that software practitioners use; instead he is (increasingly) much more interested in how, why and when developers, testers, business analysts... actually work. How they decide what to do. How they decide what not to do. How they decide who should do what. Then how they do it. This is because so many of the major challenges facing software engineering are people-related – whether that be for the people developing and maintaining the world's increasingly connected and complex software systems, or for the people using those same software systems. Through a programme of primarily empirical research Stephen strives to better understand and improve how people develop and use software so that it will have the positive impact we need it to have, for the benefit of individuals, groups, businesses, governments and societies. After all, the sought-after outcomes of all of the current computing frontiers – AI, Augmented Reality, the Internet of Things, Big Data Analytics – will only be delivered through well-engineered software.

Stephen's specific research interests can be captured in four words: teams, practices, analytics, evidence. However, the various combinations of these areas lead to research activities that cover a range of topics, normally conducted in conjunction with others. In particular Stephen and his colleagues in the Software Engineering Research Laboratory (SERL) oversee an ongoing cohort of capable and motivated postgraduate students, the most recent group having produced a variety of new knowledge and outcomes: frameworks for software measurement in SMEs,

synthesised models of requirements change management, novel visualisations of software testability and traceability, genuinely time-aware effort estimation models, new lean approaches to software project planning and scheduling, antecedent-consequent analyses in software sourcing transitions, and tools and methods to support co-ordination in distributed teams. Internationally Stephen is working with two different groups in China on how to more accurately forecast the outcomes of software projects; he continues to work with a collaborator in London on improved approaches for software model evaluation; and he is one of six core members of the multi-national HELENA team (where HELENA stands for Hybrid dEveLopmENt Approaches in software systems development). In 2016 Stephen was Programme Co-Chair for the internationally leading conference on Evaluation and Assessment in Software Engineering (EASE2016) held in Limerick, Ireland, a role he will have again in 2018 when EASE comes to Christchurch. He also continues to serve as an active member of the Editorial Board for the journal Information and Software Technology.

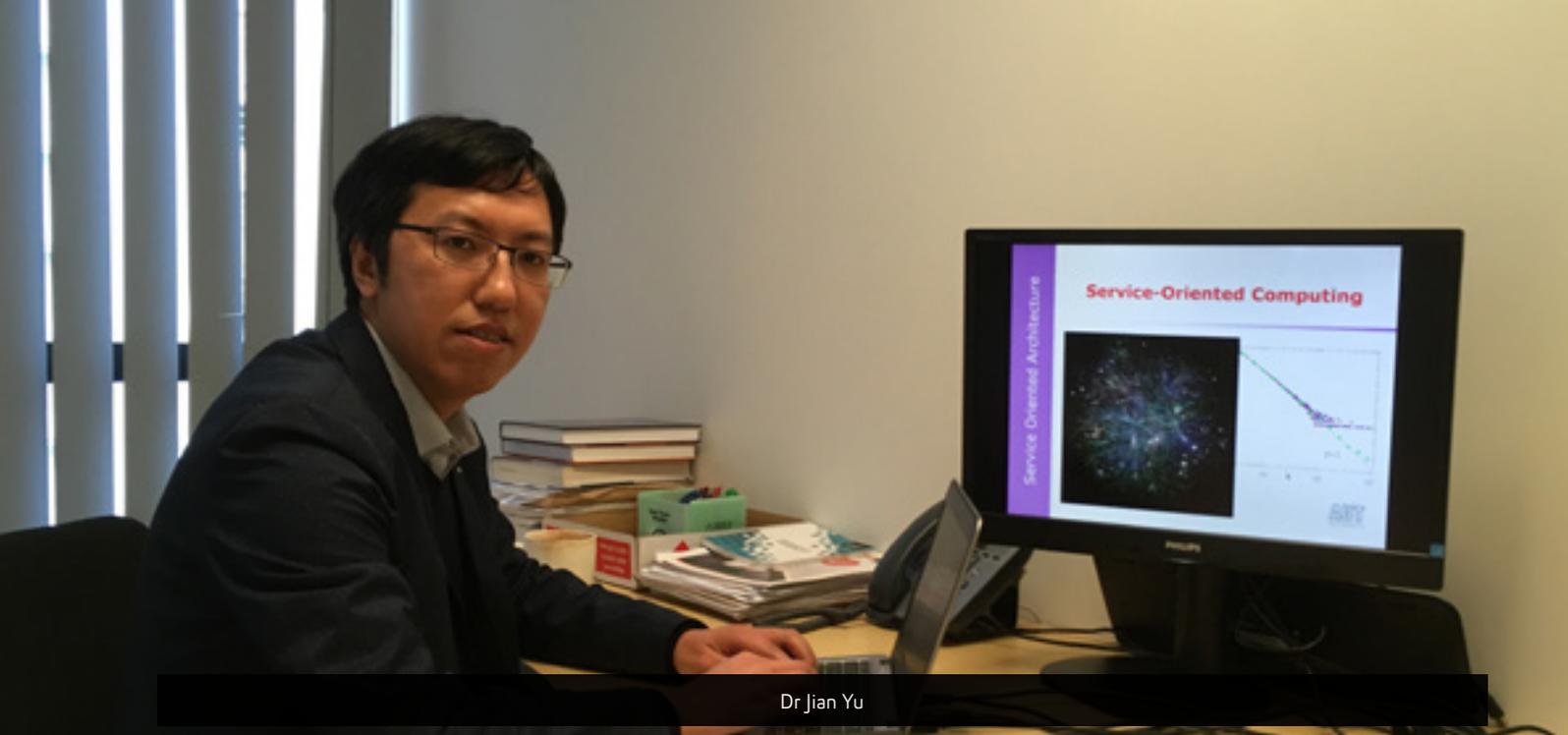
Stephen is also contributing to three national initiatives that are positively changing the landscape for research and education in software engineering and in ICT more generally. He is the inaugural Chair of IT Professionals New Zealand's Accreditations Board for computing degrees, working in accordance with the Seoul Accord to ensure that degrees gained in New Zealand are internationally recognised; he is the Deputy-Chair of the newly-formed Software Innovation NZ (SI<sup>^</sup>NZ) research network which brings together the capabilities of all of New Zealand's software engineering researchers under a single umbrella body; and he is the Theme Leader for IT, Data Analytics and Modelling for the Science for Technological Innovation National Science Challenge, a 10-year, multimillion dollar government investment seeking to enhance New Zealand's capacity to use physical sciences and engineering for economic growth.



Professor Stephen G. MacDonell



Professor Stephen G. MacDonell in conversation.



Dr Jian Yu

## CONTEXT-AWARE SERVICES FOR THE FUTURE WEB

Contributed by Dr Jian Yu

Context awareness refers to the system capability of both sensing and reacting to situational changes. It is one of the most exciting trends in computing today that holds the potential to make our daily life more productive, convenient, and enjoyable. Recently, with the rapid advances in mobile technologies, context-aware services are emerging as an important technology to underpin the new breed of user-centric smart applications on the future ubiquitous Web or Web of Things. Although mobile devices naturally have the capability to capture both the physical context, such as location, and the social context, such as presence and relationships, of users, there are many hurdles to cross in order to realize the full potential of context-aware services. For example, how to extract/derive pertinent context information from the World Wide Web and the mobile networks and evaluate its quality? How to effectively manage the physical and social context information, which is largely distributed over the Web? How to facilitate the development and deployment of context-aware services? Just to name a few.

Dr Jian Yu's research interests are rooted in the World Wide Web, including Web services, context-aware computing, complex networks, and Web of Things. He was on the program committee of the main international conferences in service-oriented computing including International Conference on Service Oriented Computing, IEEE International Conference on Service-oriented Computing and Applications, IEEE Asia-Pacific Services Computing Conference, and International Conferences on Advanced Service Computing. His co-authored book *Enabling Context-Aware Web Services: Methods, Architecture and Technologies* is ranked amongst Amazon's top 100 books on web services, and his co-authored article *Trust Management of Services in Cloud Environments: Obstacles and Solutions* is published in

one of the highest ranked journals in computer science: *ACM Computing Surveys*. In 2015, Jian was a finalist for the AUT Vice Chancellor Individual Research Excellence Award.

Dr Yu has a long-term collaboration with Beijing Key Laboratory on Integration and Analysis of Large-Scale Stream Data at North China University of Technology. In 2016, as one of the primary investigators, he was awarded a National Natural Science Foundation of China (NSFC) grant *Models and Methodology of Data Services Facilitating Dynamic Correlation of Big Stream Data* (No. 61672042, Jan 2017 ~ Dec 2020, CNY 590K/NZD 125K). This grant is the fruition of three years of joint effort with Prof Yanbo Han, the director of the Key-Lab. It is worth noting that Prof Han visited AUT in 2014 under the school's Research Initiative Fund. NSFC Grant is the most prestigious science grant in China, which is equivalent to a Marsden Grant in New Zealand. Currently, the research teams of Dr Yu and Prof Han are working closely to develop approaches for realizing real-time correlation of big stream data through programmable configuration and composition of proactive data services.

One of Jian's current research topics is on applying complex systems and networks theories and methods to the organisation of web service registries. Stephen Hawking said that "the next century will be the century of complexity." We are literally surrounded by systems that are hopelessly complicated. To facilitate the discovery of the huge amount of services (including Web-APIs and Mashups) on the web, Jian and his students are working on building a scale-free network for web services, which serves as a correlation context for global web services. An initial approach for this project has been designed and implemented and has been applied on *ProgrammableWeb.com*, which is presently the largest Web-API registry in the world.

## RECENT DEVELOPMENTS IN DATA SCIENCE

Contributed by Dr Muhammad Asif Naeem

Data Science is poised to become one of the most intensively researched areas within the Computer Science discipline. The research carried out by Dr Muhammad Asif Naeem is at the cutting edge of new developments in this field. He is a director of the Data Science Research Group (DSRG) at AUT. The group under his leadership seeks to promote research into all aspects of Data Science such as Big Data Processing, Data Stream Mining, Text Mining, Machine Learning, and Information Visualisation. The application areas where research carried out by the group is being applied are Smart Business, eHealth, Computational Sport Science, Telecommunication, Social Networks, Power and Electricity and City Planning. Figure 1 presents the research spectrum diagram with core research areas, application domains and projects.

Asif has been involved in following projects with Crown Research Institutes and his industry partners in New Zealand.

- **Staged Online Learner (SOL):** Asif has been working on this project with Associate Professor Russel Pears and a PhD student Chamari Kithulgoda. The major objective of this project is to analyse high speed data streams while significantly improving throughput and retaining accuracy levels obtained from the existing state of the art data stream mining toolbox. Currently many organizations are unable to analyse streaming data in real time and are forced to store their data, which are later processed in batch mode. The major limitation of this approach is that decisions cannot be taken in timely manner in real time. The project aims to develop a new framework – Staged Online Learner (SOL) – for data stream mining that explicitly models the level of volatility in the stream and takes advantage of low volatility data segments by re-using models built during counterpart high volatility segments. The project received the partial 2016 AUT Strategic Research Investment Fund (SRIF) award.
- **Does the eye reveal choice?:** Asif has been leading this project with his research partner Dr Gerald Weber from The University of Auckland. The primary objective of the project is to enable brick and mortar (BaM) retailers to track what their customers are looking at, so that they can react to that information immediately and can better withstand the pressures of online retail. This gives BaM retailers unprecedented insight into optimal sales processes, as well as a chance to make immediate personalized offers in a way that online retailers do. The project has received a 2015 DCT SRIF award and is aimed to submit for a Ministry of Business Innovation and Employment smart ideas grant this year.
- **Post Discharge Application:** Asif has led this project with Dr Farhaan Mirza and a postgraduate student, Hiten Karamchandani. The aim of the project was to develop a post discharge application. This enables medical practitioners to extract the information necessary for

patients to know and show them on their smartphone. The other goal was to improve the efficiency and effectiveness of communicated information leading to better recovery for patients. The project was funded by Orion Health New Zealand.

- **Features Extraction from TV Show Data:** Asif has taken this project forward with Dr Parma Nand and two Master's students. The aim of the project was to develop a model for predicting audiences demand and best release date for the upcoming TV shows. The research was conducted with DSRG industry partner, Parrot Analytics. Asif, with the help of Parrot Analytics, is aiming to apply Callaghan funding to fund a PhD student working on the project.
- **Forensic Intelligence:** Recently, Asif and Associate Professor Russel Pears has started a new project with the Institute of Environmental Science and Research (ESR), a New Zealand Crown Research Institute. The project will analyse ESR's forensic casework data to identify patterns in the types, timing and outputs of the forensic science conducted. Through this analysis Forensic Intelligence outputs will be produced identifying the forensic examinations that will help to improve the way New Zealand prevents, responses, and investigates crimes.

Asif has also carried out his research in the area of Data Warehousing. He developed several algorithms to enhance the performance of a data warehouse. He characterized the algorithms, describing the conditions under which they operate best. To do this, he devised the algorithms, explained their operation, described a theoretical cost model and carried out experiments demonstrating not only the validity of the theoretical results but also the improved performance. His recent research in this direction has been published in Information Systems, an A\* journal in the Computing Research and Education Association of Australasia (CORE) rankings, and in International Conference on Information and Knowledge Management (CIKM), an A-ranked conference in CORE.



Asif's other research-related activities in 2016 include organising of his 5th IEEE International Workshop on Data Science (IWDS 2017) in conjunction with 12th IEEE International Conference on Digital Information Management (ICDIM), serving as a contest chair in the 20th Pacific Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2016). He was invited for a keynote talk in 6th IEEE International Conference on Innovative Computing Technology (INTECH 2016). Asif also served as a program committee member in International Conference on Information Systems (ICIS 2016), Association

for Information Systems (AMCIS 2016), The 36th Australasian Computer Science Conference (ACSC 2016), and The 27th Australian Database Conference (ADC 2016). He was an editorial member in IEEE Transaction on Very Large-Scale Integration (VLSI) Systems and Neurocomputing Journals.

Asif's research interests include Data Science, Big Data Management, Data Stream Processing, Stream Mining and Analytics, and Real-time Data Warehousing. To know more about Asif, visit his web page.



# AUT RADIO TELESCOPES AND THE BEGINNINGS OF NEUTRINO ASTRONOMY

Contributed by Professor Sergei Gulyaev and Tim Natusch

Tuned as they are to the radio portion of the electromagnetic spectrum, radio telescopes offer astronomers unique insight into the processes taking place in a wide range of astrophysical and even terrestrial phenomena. With observations of Radio Galaxies, Active Galactic Nuclei (AGN), spectral line emitting Nebulae and Methanol Masers, Earth orbiting and Deep Space satellites, monitoring tectonic plate motions and the Earth rotation, the work undertaken by the radio telescopes of the AUT's Warkworth Radio Astronomical Observatory in 2016 certainly illustrates this point.

Of particular note for the observatory was publication in April 2016 in the journal Nature Physics of a discovery, for the first time, of the cosmic source responsible for generation of cosmic rays – ultra-energetic neutrinos. The Nature Physics article has 30 co-authors, three of which are from New Zealand – from AUT: Tim Natusch, Stuart Weston and Sergei Gulyaev. Neutrinos, “ghostly” nearly massless subatomic particles, hold the key to many fascinating physics

questions. For some years now, the IceCube neutrino detector has been in operation at a site close to the South Pole in Antarctica. Consisting of more than 5000 detectors dropped down boreholes, IceCube looks for the faint flashes of light characteristic of the interaction between a neutrino and the cubic kilometre of ice that it surveys. On a handful of occasions, events of enormous energy have been detected, so rare are these events that they have even been named after the Sesame Street characters Bert, Ernie and Big Bird as the three most powerful recorded to date. In units used by physicists, these events have energies exceeding 1,000,000,000,000,000 electron Volts, a PeV (Peta-electron-Volt). Whilst these units may not convey much to us on the basis of our everyday experience, this is a truly astounding amount of energy for a single, very small, lightweight subatomic particle to have. It certainly exceeds any energy that can be generated by man-made machinery.



Tim Natusch, Sergei Gulyaev and Stuart Watson (from left to right) near the AM's Warkworth Radio Astronomical Observatory. Photo: Greg Bowker



The communication dish at the Warkworth Observatory



Professor Sergei Gulyaev

Where did these neutrinos come from, which cosmic object could have produced them? IceCube itself can tell from the trajectory of a neutrino through its array of detectors that the events were of astronomical origin, (they did not originate on the Earth) and, very roughly, what direction/area on the sky they came from. For the “Big Bird” event, it was a large part of the sky, on the border between constellations of Centaurus and Lupus encompassing thousands of astronomical objects. Our Nature Physics paper reported of an identification, for the first time, of an ultra-energetic neutrino event with a particular astronomical object. It therefore linked the neutrino detection technique with the science of Astronomy.

It was one of those “serendipitous” discoveries. When the IceCube has been operating, the AUT’s Warkworth

Observatory has been participating in TANAMI, a programme of collaboration with several southern hemisphere radio telescopes for monitoring a range of AGN. Powered by processes in the region around a supermassive black hole at the very centre of a galaxy, AGN are the most powerful emitters of radio signals and commonly characterised by powerful jets emanating from their core. TANAMI detected a massive increase in output from one of AGN, the blazar “PKS1424-418” that coincided both in time and space with the Big Bird neutrino event. The blazar “PKS1424-418” is an extragalactic

object, billions light-years away from us, which makes it one of the most remote objects we can observe. Careful analysis of its brightening in the radio spectrum along with evidence of a rise in gamma ray emission, detected at the same time by NASA’s Fermi Gamma-Ray Space Telescope, strongly supported the conclusion that this blazar was the source of the Big Bird neutrino event detected by IceCube.

Not many New Zealanders knew that back in 1948, the first identification of the so-called radio stars with well-known astronomical objects, was conducted here, in New Zealand, near Leigh and Piha. The radar technique well-developed in WWII was in 1948 for the first time linked to the huge body of knowledge we call Astronomy, which marked the beginning of Radio Astronomy as science. Quite similarly, identification of the ultra-high energy neutrino event with one of the most powerful objects in the universe, can be considered as opening a new window on the universe and, arguably, as the beginning of an era of Extragalactic Neutrino Astronomy.

This discovery, along with the ground breaking detection of gravitational waves by the Laser Interferometer Gravitational-Wave Observatory (LIGO), made 2016 an exceptional year for astronomy and physics!



CSIRO's Parkes radio telescope, which detected FRB150418, superimposed on an image showing the distribution of gas in our Milky Way galaxy. An artist's impression of a single fast radio burst is shown above the dish. Photo: Swinburne Astronomy Productions

## UNLOCKING RELATIONSHIPS BETWEEN SPACE, TIME AND MATTER

Contributed by Dr Willem van Straten

It can be surprising to learn that naturally occurring inanimate objects in our Universe emit radio waves. We directly observe the visible light from our Sun and Moon, the world around us, the distant planets, and the inconceivably distant stars, but to send and receive signals using other parts of the electromagnetic spectrum, we must first invent and build special equipment. We communicate with radio waves, warm our food with microwaves, and use X-rays for medical imaging. So when Dr van Straten from the Institute for Radio Astronomy and Space Research tells people about his work, he's not surprised when asked if he is listening for ET.

In fact, when the clock-like ticks from radio pulsars were first detected, the mysterious origin was nicknamed LGM-1 for "little green men" because, at the time of the discovery, there was no natural explanation for the phenomenon. We now understand radio pulsars as rapidly spinning neutron stars that are more dense than an atomic nucleus and surrounded by an extremely powerful magnetic field. Like a distant light house, a radio flash is observed each time a pulsar's beam sweeps past Earth. Dr van Straten specializes in using the exceptional rotational stability of pulsars to measure the relationship between space, time, and matter, as described by Einstein's General Theory of Relativity. He is a senior

member of the Parkes Pulsar Timing Array collaboration, which in 2016 published new pulsar mass estimates based on observations of relativistic orbital dynamics (MNRAS, 455, 1751–1769).

Dr van Straten is also a founding member of the International Pulsar Timing Array (IPTA), a collaboration that regularly observes a large number of pulsars distributed across the sky to search for low-frequency gravitational waves from the super-massive black holes that orbit each other after distant galaxies collide. In 2016, the IPTA published its first data release (MNRAS, 458, 1267–1288) and a detailed analysis of the sensitivity of these data to gravitational waves (MNRAS, 458, 2161–2187). Detecting gravitational waves using pulsars is one of two key scientific objectives for Phase I of the Square Kilometre Array (SKA), an ambitious international project to build the world's largest radio telescope and address a broad range of outstanding questions in fundamental physics and cosmology. Funded by 1.1 million dollars from the Australian government, Dr van Straten is leading the design of the pulsar timing instrument for the SKA.

Given their demonstrated potential to test and perhaps upset our current physical theories and models, considerable

effort is invested in the search for new pulsars. Just as pulsars were unexpectedly discovered during a survey for something completely different, pulsar surveys led to the discovery of a new and enigmatic class of signals known as Fast Radio Bursts. A Fast Radio Burst (FRB) is an intense flash of radio emission that lasts only a few milliseconds or less and appears to originate in the early Universe. Detecting an FRB is challenging because of the overwhelming population of false candidates, including the annoyingly similar pulses that can be produced by microwave ovens. To date, only 23 FRB detections have been published, and all but a handful of these were discovered by Dr van Straten and his colleagues using telescopes in Australia.

Astronomers and cosmologists are excited about FRBs because their origin is currently a mystery and their signals carry otherwise unavailable information about the distribution of matter and energy in the Universe. However, before this information can be reliably interpreted, a large number of FRBs must be detected and accurately located, and follow-up observations must be made at other wavelengths (e.g. using an optical telescope) to identify the host galaxy and measure

its distance. Last year, an international team including Dr van Straten reported the first identification of the host galaxy of an FRB (Nature 530, 453–456). Since this research was published, the association has been contested, and most of the uncertainty in the debate arises from how little we know about the variable radio sky. To improve our understanding of radio variability, dramatically increase the rate of FRB detection, and accurately localize each one, requires the next generation of radio telescopes, including the SKA and its pathfinders.

With its wide field of view, excellent sensitivity, and high-resolution imaging capability, the Australian SKA Pathfinder (ASKAP) is set to seriously advance the state of the art in FRB detection and localization. As a member of the Commensal Real-time ASKAP Fast Transients (CRAFT) survey, Dr van Straten will work with AUT's experts in machine learning (KEDRI) and high-performance computing (HPC-Lab) to develop fully automated systems that instantly distinguish between promising FRB candidate signals and the background din of radio noise and terrestrial sources of interference. Although we aim to solve the FRB mystery, we also hope to encounter some new surprises along the way.





**RESEARCH OUTPUTS**  
COMPLETED RESEARCH DEGREES

## MASTER DEGREES 2016

### ART AND DESIGN - MASTER OF ART AND DESIGN

Name	Date granted	Thesis title	Supervisor
Alexander Rupert Sheehan Bartleet	29/07/16	Latent Potential	I. Jervis
Anne-Sophie Jeanne Christiane Adelys Lacey	29/07/16	Forget me not	I. Jervis
Aroha Josephine Gossage	29/07/16	Turangawaewae; an exploration through painting	I. Jervis
Eden Jayne Short	29/07/16	Totally Imagined Cartography: An exploration of the relationship between totalitarianism, the map and the graphic design within a fictional world	L. Kaiser
Hayden David Maunsell-Wybrants	29/07/16	Product Personality: An investigation how congruent personalities identified in the target market can intentionally be assigned to a wireless speaker	S. Inder
Isabelle Michele Karin Eliane Binz	29/07/16	Teabags and Fingerprints: A creative consideration of a presentation of traces of the self	D. Fitchett
Joanne Mary Donovan	29/07/16	Fabricating Intimacy- reducing subliminal distances between people and textiles	M. Smith
John Junior Kafoa Vea	29/07/16	The Emic Avenue; Art through Talanoa	A. Thompson
Leanne Sarah Jackson	29/07/16	Way of the process printer: The Coexistence of Process & Painting within a Wayfaring, Intuitive and Durational Practice	D. Jansen
Mark Bernard Schroder	29/07/16	Minimum Viable Product (Inside Game)	M. Redmond
Mary Ellen Coleman	29/07/16	Now I Lay Me Down To Sleep: Re-examining Encephalitis Lethargica	A. Miles
Maya Rebecca Wilson	29/07/16	Spatial Provocations   Activating a Critique of the Alliance of God and Mammon Within the Evangelical Protestant Right	S. Hedges
Michael John Grobelny	29/07/16	Union made	S. Reay
Nicola Marguerite Gabriel	29/07/16	Construction Knitting	M. Smith
Sarah Louise Jennings	29/07/16	Crossroads of ex-istence: Performing object-events toward an unconditional ethos of death	M. O'Connor
Stephanie Lee West	14/12/16	Escapology: Transcending boundaries of design & flat patternmaking practices	M. Smith
Susan Gaye Hendeles	29/07/16	Search for magic in Dog Town: A photographic journey	D. Jansen
Vivien Joy Davy	29/07/16	Liminal Sites: Materialising an Everyday	M. Jansen
Yi Qiu	29/07/16	Home: The interplay between text and photograph	K. Tong Ho

### ART AND DESIGN - MASTER OF PHILOSOPHY

Name	Date granted	Thesis title	Supervisor
Ash Ahkahayana Ahkit	29/07/16	Homeless Doesn't Mean Hopeless	F. Palmer

David Lewis Sinfield	29/07/16	Typographical poetics: A contemplation on memory and loss at the Patea Cool Stores and Freezing Works	W. Ings
Dean Cameron Reynolds	14/12/16	An Emotional Prehistory: The Dangers of Anthropomorphism and Artistic Interpretation in Prehistoric Visualisations	G. Bennett
Rebecca Margaret Jury	29/07/16	Note for me, without me: co-designing assistive technology with people affected by dementia	S. Reay

## COLAB - MASTER OF CREATIVE TECHNOLOGIES

Name	Date granted	Thesis title	Supervisor
Alexey Botkov	29/07/16	Making Frogshark: entrepreneurial strategies and synthesizing 'indie game dev' acumen	B. Kenobi
Arien Roel Hielkema	14/12/16	Smart Tools for a Smart Recovery: The development of a motivational training aid to address issues related to athlete adherence to the current injury recovery process	J. Charlton
Caroline Mary Stephen	14/12/16	Digital Dynamics: An Interactive Design Process for Generating Knitted Textiles	M. Smith
David Mendelow	29/07/16	Your Attention Please: Creating Cinematic Scientific Visualizations	C. Walker
Hollee Margaret Fisher	14/12/16	Smart Tack: A textile based system for the monitoring of equine physiology	M. Smith
Jacques Foottit	14/12/16	Touchable: Adapting a haptic feedback glove for use in rehabilitation contexts	S. Marks
Logan Longbourne	29/07/16	Happiness Apps: Reinforcing Happiness-Prompting Behaviour Through Software	S. Kamokar
Stacy Ann Brett	14/12/16	South Side Pride: Sharing the Stories of South Auckland Through Interactive Textiles and Technologies	M. Smith
Taura Joseph Greig	14/12/16	Evaluating the Perceived Immersion of Procedurally Generated Game Levels	A. Connor

## COMMUNICATIONS - MASTER OF COMMUNICATION STUDIES

Name	Date granted	Thesis title	Supervisor
Blair Speakman	14/12/16	"She's god basically mother of this universe": The 'Authentic' Lady Gaga and the Re-evaluation of the Little Monster Fan Identity.	L. Piatti-Farnell
Craig Robertson	14/12/16	Supply and demand: A comparative analysis of journalistic and consumer news selections on nzherald.co.nz	G. Treadwell
Jess Paul	14/12/16	Maori perceptions of Maori Television: An emperical study	R. Johnson
Jyotsna Poosalngam	29/07/16	Studying The Effects of Persuasion Knowledge & Internet Literacy on User Behaviour Online	M. Waiguny
Karen Lesley Abplanalp	29/07/16	Peace Journalism and West Papua - a case study of reportage by New Zealand and Pacific journalists addressing Indonesia's media 'black spot'	A. Oosterman

Majid A M Al Zowaimil	14/12/16	After the Arab Spring: An Analysis of the Future of Journalism in the Middle East	D. Robie
Maureen Sinton	14/12/16	Putting the Public into Public Radio: Web 2.0 Interactivity and RNZ National	P. Hoar
Nigel Grimshaw-Jones	29/07/16	Brand awareness gains wings on social media. The Continued rise of values based marketing.	G. Frommherz
Roxanne Johnston	14/12/16	Not Our Future: An Exploration of Pacific Identity through Targeted Television Advertising	C. Milligan
Taylor Annabell	14/12/16	Nationhood by design? The discursive construction of a "new" New Zealand in the Flag Consideration Project	A. Nairn
Tue Minh Phan	29/07/16	The role of Facebook in the image management of Vietnamese celebrities	B. King

## COMMUNICATIONS - MASTER OF PHILOSOPHY

Name	Date granted	Thesis title	Supervisor
Ursula Grace Williams	14/12/16	The King: A documentary and exegesis	G. Peters

## ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES - MASTER OF COMPUTER AND INFORMATION SCIENCES

Name	Date granted	Thesis title	Supervisor
Barry Robert Dowdeswell	14/12/16	Torus: Tracing Complex Requirements for Large Cyber-Physical Systems	R. Sinha
Chang Jiang	29/07/16	Intelligent influence maximisation in online social networks	Q. Bai
Datong Gu	29/07/16	Cross Models for Twin Recognition	WQ Yan
Erin Patricia Chapman	14/12/16	Using Graphic Based Systems to Improve Cryptographic Algorithms	B. Cusack
Fatthy Amir Abdullah	14/12/16	Leaf Wetness Duration Modelling using Adaptive Neuro Fuzzy Inference System	P. Sallis
Fawaz Abdulmohsen Alsabhen	14/12/16	Health Website Usability Including a Motion Capture Study	D. Parry
Hussain Mohammed F Alqahtani	14/12/16	Does E-Learning Help Users to Learn: A Comparative Study of E-Learning in Saudi Arabia and New Zealand	K. Petrova
Hussam Mohammad Aljamani	14/12/16	Tablet PC Usability Using Motion Capture in a Simulated Clinical Setting	D. Parry
Jia Wang	29/07/16	Event-Drive Traffic Ticketing System	WQ Yan
Jiabei Qi	29/07/16	Sustainable and Resilient Network Infrastructure Design for Cloud Data Centers	W. Liu
Joe Yuan Yulian Mambu	14/12/16	Emergency Broadcast System – A Reverse 911 Tsunami Information Dissemination System Prototype: The case of Indonesia	J. Gutierrez

Kristofer Michael Brooking	29/07/16	A Preliminary Model of the Development of Early Visual Perception	W. Yeap
Md Foysal Ahmed	29/07/16	A Feasibility Study of a Wi-Fi-Based Vehicular Ad Hoc Network in the Westfield Shopping Mall Parking Lot using Field Trial Measurements and Simulation	Nurul Sarkar
Naif Saeed F Aldhahri	29/07/16	Investigating the ways of how e-learning enhances teaching and learning of computer science at tertiary institutions in New Zealand	S. Klymchuk
Parag Ganesh Nayak	14/12/16	Comparative Analysis Of Traditional Machine Learning Methods And Spiking Neural Networks for Spatio-Temporal Data Mining	N. Kasabov
Poonam Pushkar Dhawale	14/12/16	Identifying the characteristics of usability that encourage prolonged use of an Activity Monitor	R. Wellington
Yang Zhang	29/07/16	A Virtual Keyboard Implementation Based on Finger Recognition	WQ Yan
Yao Chu Zhu	14/12/16	Exploring Defense in SQL Injection Attack in Penetration Testing	WQ Yan
Yuming Zhu	29/07/16	The Evaluation of the Effects of Network Attacks in Wireless Mesh Networks	W. Liu

## ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES - MASTER OF ENGINEERING

Name	Date granted	Thesis title	Supervisor
Adrian Moldovanu	29/07/16	Development of a Portable Circular Texture Meter for Road Texture Depth Measurement	L. Huang
Astad Adil Kapadia	29/07/16	A study on voltage issues caused by photovoltaic installations on the low voltage grid in New Zealand residential conditions	TT Lie
Christopher Paul Whittington	29/07/16	Design and Development of an all Polymeric Solar Water Heating System	T. Anderson
Huitao Yang	29/07/16	Next-generation cellular technologies for sensor networking	BC Seet
Mark Boyd Simpson	14/12/16	Vehicle propulsion using continuous track linear induction motors on steel plates	A. Taylor
Sam Brian Lees	14/07/16	An Investigation Into the Surface Finish of Laterally Face Milled Cobalt-Chromium-Molybdenum Alloys	T. Pasang

## ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES - MASTER OF PHILOSOPHY

Name	Date granted	Thesis title	Supervisor
Hassan Mahmoud Mohamed Abdel-Moniem Raslan	29/07/16	An Investigation into the Development of a Realistic Upper Airway Visualisation System	A. Al-jumaily
Kaushik Roy Chowdhury	14/12/16	Governing Network of Collaborators for Achieving Business Model Agility	J.Gutierrez

## PHD COMPLETIONS 2016

### ART AND DESIGN

Name	Date granted	Thesis title	Supervisor
Andrew John Withell	29/07/16	Conceptualising, Evaluating and Enhancing a Design Thinking Curriculum Using a Critical Realist Perspective	N. Haigh
Julia Margaret Reynolds	14/12/16	A World's Return: A Phenomenological Encounter with Film Worlds	M. O'Connor
Metuanooroa Tapuni	14/12/16	Ata: A Practice-led Artistic Inquiry into the Intersection of Digital and Physical Environments	J. Randerson
Ronald Joseph Left	29/07/16	Painting and Time: The dynamic of the actual and the virtual	W. Ings

### COMMUNICATION STUDIES

Name	Date granted	Thesis title	Supervisor
Gudrun Frommherz	29/07/16	Transhumanist Visuality: A Critical Iconology of the Technohuman Condition	P. Theuissen
Lewis Tennant	14/12/16	From Independent Record Shops to the Internet: Recorded Music Communities in the Digital Age	J. Harrison
Lyn Barnes	14/12/16	Journalism and Everyday Trauma: A Grounded Theory of the Impact from Death Knocks and Court Reporting	V. Rupar
Merja Hannele Myllylahti	29/07/16	No more free news for all: A study of how business models of APN and Fairfax have evolved towards paywalls	W. Hope
Pip Mules	2/11/16	Making Sense of Pedagogical Knowledge Media: An Analysis of How Material Form Influences Epistemological Beliefs	G. Craig
Steven Elers	14/12/16	Public Information Advertising: Maori Perspectives	F. Nelson

## ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

Name	Date granted	Thesis title	Supervisor
Diksha Kaur	29/07/16	Comparison of the Effectivity of Wind Speed Forecasting Methods	TT Lie
Elisa Capecci	29/07/16	Computational Modelling of Spatio-Temporal EEG and Neurogenetic Brain Data with Spiking Neural Networks	N. Kasabov
Krassie Petrova	14/12/16	Mobile Services and Applications: An Empirical Investigation From the Service Supply Perspective	D. Parry
Maher Al-Khazrajy	14/12/16	Assessing the Business Value of IT Control Configurations: A Design Science Study	B. Cusak
Md Akbar Hossain	29/07/16	Rendezvous in Cognitive Radio Ad-Hoc Networks	N. Sarkar
Muhammad Waseem Soomro	14/12/16	Formability of Magnesium AZ80	T. Neilzert
Ngaire Hiria Hart	29/07/16	Monitoring New Zealand's Native Bees: A Collaborative Approach Using Image Analysis	L. Huang
Norhanifah Murli	29/07/16	Development Of A New Computational Model For Mapping, Learning And Mining Of 3D Spatio-Temporal fMRI Data	N. Kasabov
Peyman Sabouri	14/12/16	Melanoma Detection Using Image Processing and Computer Vision Algorithms	H. Gholamhosseini
Piratheepan Mahendran	29/07/16	Building Integrated Solar Concentrators for Facade Applications	T. Anderson
Priyanka Raina	29/07/16	An examination of the retention practice in the New Zealand construction industry using a mixed methods approach	J. Tookey
Roneel Sharan	29/07/16	Audio Surveillance in Unstructured Environments	T. Moir
Ross Twiname	29/07/16	Two Resonant Topologies for Isolated Bi-Directional DC-DC Conversion	C. Baguley
Shafiqur Rahman Tito	29/07/16	Factors Affecting the Optimal Sizing of Generators and Storage in Stand-Alone Hybrid Renewable Energy System	TT Lie
Sherif Ashaat	29/07/16	Understanding Upper Airway Dynamic Characteristics in OSA Patients under Invasive and Non-Invasive Treatment	A. Al-jumaily
Solaman Bobby Selvaraj	29/07/16	Mechanism and Mechanics of Bonding in 3D Printed Moulds and Critical Roles of specific Constituents	S. Singamneni
Teh Raihana Nazirah Roslan	29/07/16	Pricing Variance Swaps Under Stochastic Volatility and Stochastic Interest Rate	J. Cao
Waqar Hussain	14/12/16	Requirements Change Management in Global Software Development	T. Clear



**RESEARCH OUTPUTS**  
STAFF PUBLICATIONS

## ART & DESIGN

### AMANDA BILL

Publication Type	Citation
Journal article	Reay, S. D., Collier, G., Kennedy-Good, J., Old, A., Douglas, R., & Bill, A. (2016). Designing the future of healthcare together: prototyping a hospital co-design space. <i>CoDesign: International Journal of CoCreation in Design and the Arts</i> . doi:10.1080/15710882.2016.1160127
Journal article	Bill, A. (2016). Counter-conduct in creative university research: deliberations on freedom. <i>Higher Education Research and Development</i> , 1-14. doi:10.1080/07294360.2016.1208158

### AMANDA SMITH

Publication Type	Citation
Journal article	Smith, A. E. (2016). Harnessing the Haptic in Mass-Production Seamless Knitwear Technologies. <i>The International Journal of Designed Objects, Volume 10</i> (Issue 3), 19-29. Retrieved from <a href="http://www.commongroundpublishing.com/">http://www.commongroundpublishing.com/</a>
Design output	Moore, R., Smith, A., & Fraser, G. (2016). <i>Dance Costume - Soft with a Realistic Feel</i> [Knitted Textile - Wholegarment]. Bowerbank Ninow Art Gallery, Auckland, New Zealand.
Conference contribution	Moore, R., & Smith, A. (2016). Stitching the past to the future. In <i>Stitching the Past to the Future</i> . Massey University, Wellington, New Zealand.
Conference contribution	Smith, A., & Jones, L. (2016). Fashion the Next Generation in a Post- Consumerist Globality. In <i>Fashion the Next Generation in a Post- Consumerist Globality</i> . Massey University.
Conference contribution	Smith, A., & Finn, A. (2016). Fashion in Fiji: The potential of design within the context of a declining manufacturing industry. In <i>4th International Non-Western Fashion Conference</i> . University Antwerp, Belgium.
Journal article	Smith, A. (2016). Seamless knitting is it/can it be used as a digital crafting tool?. <i>Making Futures, 4</i> . Retrieved from <a href="http://makingfutures.plymouthart.ac.uk/">http://makingfutures.plymouthart.ac.uk/</a>
Journal article	Smith, A., & Moore, R. (2016). The Transference of Craft to Digital Knowledge through the Medium of Knitted Textiles. <i>Making Futures, 4</i> . Retrieved from <a href="http://makingfutures.plymouthart.ac.uk/journal-home/current-journal/">http://makingfutures.plymouthart.ac.uk/journal-home/current-journal/</a>
Oral presentation	Smith, A. (2016). <i>Design is it your future?</i> Suva, Fiji.
Oral presentation	Smith, A. (2016). <i>The Future and Fashion as a Career</i> . Suva, Fiji.
Design output	Moore, R., Smith, M., & fraser, G. (2016). <i>Too Soft with a Realistic Feel, Somewhere Series #9 // Halloween Special</i> [Seamless knit garment]. Number 1 Cross Street, Auckland.

### AMANDA YATES

Publication Type	Citation
Chapter or section in books	Randerson, J., & Yates, A. (2016). Negotiating the ontological gap: Place, performance, and media art practices in Aotearoa/New Zealand. In J. Adamson, & S. Monani (Eds.), <i>Ecocriticism and Indigenous-Studies: Conversations from Earth to Cosmos</i> (pp. 252 pages). London and New York: Routledge. doi:10.4324/9781315697192

### ANDREW DENTON

Publication Type	Citation
Journal article	Denton, A. (2016). Affective modes of cinematic inquiry: Oil and subjective distance in <i>Crude</i> (2016) and <i>Flight</i> (2016). <i>Philosophy, Art, Activism, 12</i> . Retrieved from <a href="http://www.panjournal.net/info/about">http://www.panjournal.net/info/about</a>

Conference contribution	Denton, A. (2016). Aspects of Trees: Artist Talk and Screening. In <i>Aspects of Trees: Artist Talk and Screening</i> . Silver City New Mexico.
Oral presentation	Denton, A. (2016). <i>Virtual &amp; Augmented Reality: Changing Your World</i> . ANZ Viaduct Events Centre, Viaduct Harbour Auckland, New Zealand.
Oral presentation	Denton, A. (2016). <i>Animation Workshop</i> . ANZ Viaduct Events Centre, Viaduct Harbour Auckland, New Zealand.
Conference contribution	Kruse, J., Reay, S., Denton, A., & Bennett, G. (2016). Virtual MRI Experience for Children. In T. Marsh, & S. Göbel (Eds.), <i>Serious Games – Lecture Notes in Computer Science</i> Vol. 9894 (pp. 260–263). Southbank, Brisbane, Australia: Springer Verlag (Germany). doi:10.1007/978-3-319-45841-0_26
Artwork or artefact	Denton, A., & Connors, T. (2016). <i>Flight Variant</i> (No. Of Pieces: 1 x Large Projection (120 minutes: looped)) [High Definition Video & MAX MSP Interactive Sound Installation]. Canberra. Retrieved from <a href="http://www.icad.org/icad2016/call.shtml">http://www.icad.org/icad2016/call.shtml</a>

## ANDREW DOUGLAS

Publication Type	Citation
Journal article	Boberg, I., & Devine, N. (2016). Ignorance and intensity: Becoming through the doctoral thesis. <i>Knowledge Cultures</i> , 4(1), 436–452. Retrieved from <a href="http://www.addletonacademicpublishers.com/online-access-kc">http://www.addletonacademicpublishers.com/online-access-kc</a>

## BOI YAP

Publication Type	Citation
Conference contribution	Yap, B. (2016). Hybrid experiment: Art and science symbiosis in designing childbirth experiments. In C. Kung, E. Lam, & Y. Lee (Eds.), <i>Open Design for E-very-thing</i> Vol. one (pp. 171). Hong Kong, China: Hong Kong Design Institute. Retrieved from <a href="http://www.cumulusassociation.org/">http://www.cumulusassociation.org/</a>

## DAVID SINFIELD

Publication Type	Citation
Conference contribution	Sinfield, D. (2016). Community Engagement Through Student Projects. In <i>Learning and Teaching Forum</i> . Auckland New Zealand.
Journal article	Sinfield, D. (2016). The Erased Layers of Typography: From the Eroded Palimpsest to Spatio-temporal Typography. <i>The International Journal of Visual Design</i> , 10(2), 15–23. doi:10.18848/2325-1581
Other form of output	Sinfield, D. (2016). Pragmatic Signage: Signage of local community. [TEDx talk]. Manukau, New Zealand: TEDx. Retrieved from <a href="http://tedxmanukau.com/blog/project/david-sinfield/">http://tedxmanukau.com/blog/project/david-sinfield/</a>
Conference contribution	Sinfield, D. (2016). Curriculum Flexibility Project—Problem Solving for a Flexible Curriculum. In <i>Problem Solving for a Flexible Curriculum</i> . Auckland New Zealand.
Conference contribution	Cochrane, T., Sinfield, D., & Mortensen Steagall, M. (2016). Exploring Mobile360: Immersive user-generated mobile images and video. In L. Antonczak, & M. Schleser (Eds.), <i>Mina2016 – Mobile Futures: Poetics, Production and Innovation</i> Vol. 1. Melbourne Australia: Mobile Innovation Network of Australasia. Retrieved from <a href="http://mina.pro/minamobile2016/">http://mina.pro/minamobile2016/</a>
Conference contribution	Mortensen Steagall, M., Sinfield, D., Cochrane, T., & Tolutau, T. (2016). Contextualising the classroom: Using Google Maps and 360 degree imagery to augment the undergraduate design environment. In L. Gomes Chova, A. Lopez Martinez, & I. Candel Torres (Eds.), <i>ICERI2016 Proceedings: the 9th annual International Conference of Education, Research and Innovation</i> (pp. 5540–5549). Seville, Spain: IATED. doi:10.21125/iceri.2016.0248
Film and Video	Sinfield, D. (2016). <i>Patea – An Empty Shell</i> . Titirangi Theatre: Lopdell House Auckland, New Zealand: Lyrical Visions. Retrieved from <a href="http://www.eventfinda.co.nz/">http://www.eventfinda.co.nz/</a>

## DIENEKE JANSEN

Publication Type	Citation
Oral presentation	Jansen, D. (2016). <i>Dwelling on the State</i> . Melbourne.
Oral presentation	Jansen, D. (2016). <i>Where it Dwells</i> . Wellington.

## EDEN POTTER

Publication Type	Citation
Conference contribution	Potter, E. (2016). The information designer through the lens of design for learning. In P. Lloyd, & E. Bohemia (Eds.), <i>Proceedings of DRS2016: Design + Research + Society – Future-Focused Thinking</i> Vol. 8 (pp. 2381-2992). Brighton, UK. doi:10.21606/drs.2016.490
Conference contribution	Mudge, S., Kayes, N., Sezier, A., Meier-Williams, B., Smith, G., Payne, D., . . . McPherson, K. (2016). Getting evidence into practice: enhancing clinical care for people with long-term neurological conditions. In <i>5th Annual NHMRC Symposium on Research Translation</i> . Melbourne, Australia.

## FLEUR PALMER

Publication Type	Citation
Design output	Palmer, F. (2016). <i>The Barracks</i> [Future Islands catalogue-The catalogue for New Zealand's exhibition at the Venice Architecture Biennale]. Retrieved from <a href="http://www.nzia.co.nz/shop/product-detail/4057">http://www.nzia.co.nz/shop/product-detail/4057</a>

## GERBRAND VAN MELLE

Publication Type	Citation
Journal article	Van Melle, G. (2016). Shaping and Sharing Edible Sound: A Case Study. <i>International Journal of Food Design</i> , 1(1), 47-64. doi:10.1386/ijfd.1.1.47_1

## GJOKO MURATOVSKI

Publication Type	Citation
Chapter or section in books	Muratovski, G. (2016). Consumer Culture: An Introduction. In S. Harris (Ed.), <i>Consumer Culture: Selected Essays</i> (pp. 1-8). Bristol, UK / Chicago, USA: Intellect / The University of Chicago Press. Retrieved from <a href="http://press.uchicago.edu/ucp/books/book/distributed/C/bo23351258.html">http://press.uchicago.edu/ucp/books/book/distributed/C/bo23351258.html</a>
Chapter or section in books	Muratovski, G. (2016). Icons of Popular Culture: Religious Dimensions of Branding. In S. Harris (Ed.), <i>Consumer Culture: Selected Essays</i> (pp. 9-40). Bristol, UK / Chicago, USA: Intellect / The University of Chicago Press. Retrieved from <a href="http://press.uchicago.edu/ucp/books/book/distributed/C/bo23351258.html">http://press.uchicago.edu/ucp/books/book/distributed/C/bo23351258.html</a>
Chapter or section in books	Muratovski, G. (2016). Business, National Identities and International Politics: The Role of Built Environments and Architectural Propaganda in Nation Branding. In S. Harris (Ed.), <i>Consumer Culture: Selected Essays</i> (pp. 41-73). Bristol, UK / Chicago, USA: Intellect / The University of Chicago Press. Retrieved from <a href="http://press.uchicago.edu/ucp/books/book/distributed/C/bo23351258.html">http://press.uchicago.edu/ucp/books/book/distributed/C/bo23351258.html</a>
Book	Muratovski, G. (2016). <i>Research for Designers: A Guide to Methods and Practice</i> . London / Singapore / Los Angeles / Washington DC / New Delhi: SAGE Publications. Retrieved from <a href="https://uk.sagepub.com/en-gb/eur/research-for-designers/book241495">https://uk.sagepub.com/en-gb/eur/research-for-designers/book241495</a>

## GREGORY BENNETT

Publication Type	Citation
Conference contribution	Kruse, J., Bennett, G., & Piper, J. (2016). Developing new pedagogical models for curricula targeting industry and government collaborations. In <i>Developing new pedagogical models for curricula targeting industry and government collaborations</i> . Macao: ACM Digital Library. doi:10.1145/2993352.2993360

Conference contribution	Kruse, J., Reay, S., Denton, A., & Bennett, G. (2016). Virtual MRI Experience for Children. In T. Marsh, & S. Göbel (Eds.), <i>Serious Games – Lecture Notes in Computer Science</i> Vol. 9894 (pp. 260–263). Southbank, Brisbane, Australia: Springer Verlag (Germany). doi:10.1007/978-3-319-45841-0_26
Conference contribution	Bennett, G. (2016). Impossible Choreographies: the database as creative tool. In <i>ISEA2016 Hong Kong 香港 Cultural Revolution, 22nd International Symposium on Electronic Art, Hong Kong</i> . Hong Kong.
Journal article	Bennett, G. (2016). Impossible choreographies: the database as creative tool. <i>Journal of Creative Technologies</i> , (4). Retrieved from <a href="https://ctechjournal.aut.ac.nz/">https://ctechjournal.aut.ac.nz/</a>
Conference contribution	Bennett, G. (2016). Kinaesthetic affect in motion capture and animation. In <i>The Cosmos of Animation: 28th Annual Conference of the Society for Animation Studies</i> . Singapore.

## INGRID BOBERG

Publication Type	Citation
Journal article	Boberg, I., & Devine, N. (2016). Ignorance and intensity: Becoming through the doctoral thesis. <i>Knowledge Cultures</i> , 4(1), 436–452. Retrieved from <a href="http://www.addletonacademicpublishers.com/online-access-kc">http://www.addletonacademicpublishers.com/online-access-kc</a>

## IVANA NAKARADA- KORDIC

Publication Type	Citation
Journal article	Nakarada-Kordic, I., Weller, J. M., Webster, C. S., Cumin, D., Frampton, C., Boyd, M., & Merry, A. F. (2016). Assessing the similarity of mental models of operating room team members and implications for patient safety: A prospective, replicated study. <i>BMC Medical Education</i> , 16(1). doi:10.1186/s12909-016-0752-8

## JAN KRUSE

Publication Type	Citation
Chapter or section in books	Kruse, J. (2016). Artist-driven software development framework for visual effects studios. In A. M. Connor, & S. Marks (Eds.), <i>Handbook of Research on Creative Technologies for Multidisciplinary Applications</i> (pp. 283–304). doi:10.4018/978-1-5225-0016-2.ch012
Conference contribution	Kruse, J., Sosa, R., & Connor, A. M. (2016). Procedural Urban Environments for FPS Games. In Karen Blackmore, & Martin Masek (Eds.), <i>ACSW '16 Proceedings of the Australasian Computer Science Week Multiconference</i> . doi:10.1145/2843043.2843479
Conference contribution	Kruse, J., Bennett, G., & Piper, J. (2016). Developing new pedagogical models for curricula targeting industry and government collaborations. In <i>Developing new pedagogical models for curricula targeting industry and government collaborations</i> . Macao: ACM Digital Library. doi:10.1145/2993352.2993360
Conference contribution	Kruse, J., Reay, S., Denton, A., & Bennett, G. (2016). Virtual MRI Experience for Children. In T. Marsh, & S. Göbel (Eds.), <i>Serious Games – Lecture Notes in Computer Science</i> Vol. 9894 (pp. 260–263). Southbank, Brisbane, Australia: Springer Verlag (Germany). doi:10.1007/978-3-319-45841-0_26

## JANI WILSON

Publication Type	Citation
Journal article	Wilson, J. (2016). He Mokopirirākau: Cliff Curtis. <i>Te Kaharoa</i> , 9, 127–143. Retrieved from <a href="http://tekaharoa.com/index.php/tekaharoa/index">http://tekaharoa.com/index.php/tekaharoa/index</a>

## JANINE RANDERSON

Publication Type	Citation
Chapter or section in books	Randerson, J., & Yates, A. (2016). Negotiating the ontological gap: Place, performance, and media art practices in Aotearoa/New Zealand. In J. Adamson, & S. Monani (Eds.), <i>Ecocriticism and Indigenous-Studies: Conversations from Earth to Cosmos</i> (pp. 252 pages). London and New York: Routledge. doi:10.4324/9781315697192
Conference contribution	Randerson, J. (2016). Between the body, techne and environmental site. In <i>Undisciplining Dance Symposium</i> . Auckland.

## JASON KENNEDY

Publication Type	Citation
Conference contribution	Kennedy, J. (2016). Automation versus animation: a case for the affective potential of CG animation. In H. Rall, & V. Sorensen (Eds.), <i>The Cosmos of Animation: 28th Annual Conference of the Society for Animation Studies</i> (pp. 98). Singapore: Society for Animation Studies.

## JOHN PIPER

Publication Type	Citation
Conference contribution	Kruse, J., Bennett, G., & Piper, J. (2016). Developing new pedagogical models for curricula targeting industry and government collaborations. In <i>Developing new pedagogical models for curricula targeting industry and government collaborations</i> . Macao: ACM Digital Library. doi:10.1145/2993352.2993360

## KIM FRASER

Publication Type	Citation
Conference contribution	Fraser, K. (2016). ReDress: The potential to reduce textile waste in New Zealand.. In P. Evans (Ed.), <i>Too Good To Waste</i> . Wellington, NZ..

## LESLEY KAISER

Publication Type	Citation
Chapter or section in books	Kaiser, L. (2016). "The Naughty Nineties Movable Book Prototype (1981), and Multimodal Books in Tertiary Graphic Design". In P. Stupples (Ed.), <i>Art and Book: Illustration and Innovation</i> (pp. 139-160). Lady Stephenson Library, Newcastle upon Tyne, NE6 2PA, UK: Cambridge Scholars Publishing. Retrieved from <a href="http://www.cambridgescholars.com/art-and-book">http://www.cambridgescholars.com/art-and-book</a>

## LINDA JONES

Publication Type	Citation
Conference contribution	Smith, A., & Jones, L. (2016). Fashion the Next Generation in a Post- Consumerist Globality. In <i>Fashion the Next Generation in a Post- Consumerist Globality</i> . Massey University.

## LOGAN AUSTIN

Publication Type	Citation
Journal article	Austin, L. P. (2016). SkiNZ: "Patience," Personal Narratives of Identity within New Zealand's Gay Leather Culture. <i>The International Journal of Social, Political and Community Agendas in the Arts, Volume 11</i> (Issue 3), 47-56. doi:10.18848/2326-9987/CGP

## MARCOS MORTENSEN STEAGALL

Publication Type	Citation
Conference contribution	Cochrane, T., Sinfield, D., & Mortensen Steagall, M. (2016). Exploring Mobile360: Immersive user-generated mobile images and video. In L. Antonczak, & M. Schleser (Eds.), <i>Mina2016 - Mobile Futures: Poetics, Production and Innovation</i> Vol. 1. Melbourne Australia: Mobile Innovation Network of Australasia. Retrieved from <a href="http://mina.pro/minamobile2016/">http://mina.pro/minamobile2016/</a>
Conference contribution	Mortensen Steagall, M., Sinfield, D., Cochrane, T., & Tolutau, T. (2016). Contextualising the classroom: Using Google Maps and 360 degree imagery to augment the undergraduate design environment. In L. Gomes Chova, A. Lopez Martinez, & I. Candel Torres (Eds.), <i>ICERI2016 Proceedings: the 9th annual International Conference of Education, Research and Innovation</i> (pp. 5540-5549). Seville, Spain: IATED. doi:10.21125/iceri.2016.0248

## MARK JACKSON

Publication Type	Citation
Chapter or section in books	Jackson, M. (2016). Designations. In E. Grierson, H. Edquist, & H. Frichot (Eds.), <i>De-signing Design: Cartographies of Theory &amp; Practice</i> (pp. 33-45). New York and London: Lexington Books.
Journal article	Jackson, M. (2016). Artwork as Technics. <i>Educational Philosophy and Theory</i> , 48(13), 1310-1320. doi:10.1080/00131857.2015.1124036
Conference contribution	Jackson, M. (2016). The essence of power. In G. Restivo (Ed.), <i>Lacanian Psychoanalysis in the 21st Century: Psychoanalysis, New Technologies and Social Media</i> . Auckland, New Zealand.

## MIRIAM HARRIS

Publication Type	Citation
Conference contribution	Harris, M. (2016). Drawing on the Unconscious: Text & image in two animated films by Robert Breer and William Kentridge. In <i>CONFIA 2016</i> (pp. 129-138). Barcelos, Portugal: Confia Edição IPCA.
Conference contribution	Harris, M. (2016). Digital Affect: An exploration of emotional resonance in contemporary digital animation. In <i>Cosmos of Animation Conference</i> . Singapore.
Chapter or section in books	Harris, M. (2016). Miriam Harris. In R. Joyce, S. Laing, & I. Neville (Eds.), <i>Three Words: An Anthology of Aotearoa/NZ Women's Comics</i> (pp. 210-213). Auckland: Beatnik Publishing. Retrieved from <a href="http://www.beatnikshop.com/products/three-words">http://www.beatnikshop.com/products/three-words</a>

## MONIQUE JANSEN

Publication Type	Citation
Journal article	Jansen, M. (2016). Featured Drawings - Artist pages: A drawing that makes itself. <i>Drawing: Research, Theory, Practice</i> , 1(1), 139-141. Retrieved from <a href="http://www.intellectbooks.co.uk/journals/view-Journal,id=247/">http://www.intellectbooks.co.uk/journals/view-Journal,id=247/</a>

## NATALIE ROBERTSON

Publication Type	Citation
Book	Robertson, N., & Ellis, N. (2016). <i>A Whakapapa of Tradition: One Hundred Years of Ngati Porou Carving, 1830-1930</i> (Vol. 1, 1 ed.). Auckland: Auckland University Press. Retrieved from <a href="http://www.press.auckland.ac.nz/">http://www.press.auckland.ac.nz/</a>
Journal article	Robertson, N., & Ellis, N. (2016). Iwirakau. <i>Threaded</i> , (20), 80-87. Retrieved from <a href="http://store.threaded.co.nz/product/threaded-ed-20-preorder">http://store.threaded.co.nz/product/threaded-ed-20-preorder</a>
Journal article	Robertson, N. (2016). Nga Whatu-ora - We the living are the eyes of our sleeping ancestors. <i>Public, Winter 2016</i> (54: Indigenous Art), 132. Retrieved from <a href="http://www.publicjournal.ca/54-indigenous-art/">http://www.publicjournal.ca/54-indigenous-art/</a>

## NOVA PAUL

Publication Type	Citation
Film and Video	Paul, N. (2016). <i>Notes on Props and Gesture</i> . Melbourne, Australia: Gertrude Street Projection Festival. Retrieved from <a href="http://gspf.com.au/">http://gspf.com.au/</a>

## OLIVER NEULAND

Publication Type	Citation
Design output	Neuland, O. (2016). <i>Magnetoplan Whiteboard Marker Pro+</i> [Product in production]. Wiesbaden: Holtz Office Supply GmbH. Retrieved from <a href="http://www.magnetoplan.de/fn/product/142">http://www.magnetoplan.de/fn/product/142</a>

## PETER GILDERDALE

Publication Type	Citation
Conference contribution	Gilderdale, P. D. (2016). Cupid's proxy: The postcard and love at a distance. In <i>Food/Love/God: A Popular Culture Symposium</i> .
Journal article	Gilderdale, P. D. (2016). Stoic and Sentimental: The Emotional Work of the Edwardian Greetings Postcard. <i>Journal of New Zealand Studies</i> , 22, 2-18. Retrieved from <a href="https://ojs.victoria.ac.nz/jnzs/article/view/3942">https://ojs.victoria.ac.nz/jnzs/article/view/3942</a>
Conference contribution	Gilderdale, P. D. (2016). Creating a craze: picture postcard designing in New Zealand 1898-1914. In <i>Popular Culture Association of Australia and New Zealand 7th International Conference</i> . Conference Abstracts.
Chapter or section in books	Gilderdale, P. D. (2016). Full Circle. In N. S. Meulman (Ed.), <i>Shoe is my middle name</i> (pp. 185-187). Amsterdam: Lebowksi. Retrieved from <a href="http://www.lebowskipublishers.nl/">http://www.lebowskipublishers.nl/</a>

## RACHELLE MOORE

Publication Type	Citation
Design output	Moore, R., Smith, A., & Fraser, G. (2016). <i>Dance Costume - Soft with a Realistic Feel</i> [Knitted Textile - Wholegarment]. Bowerbank Ninow Art Gallery, Auckland, New Zealand.
Conference contribution	Moore, R., & Smith, A. (2016). Stitching the past to the future. In <i>Stitching the Past to the Future..</i> Massey University, Wellington, New Zealand.
Journal article	Smith, A., & Moore, R. (2016). The Transference of Craft to Digital Knowledge through the Medium of Knitted Textiles. <i>Making Futures</i> , 4. Retrieved from <a href="http://makingfutures.plymouthart.ac.uk/journal-home/current-journal/">http://makingfutures.plymouthart.ac.uk/journal-home/current-journal/</a>
Design output	Moore, R., Smith, M., & fraser, G. (2016). <i>Too Soft with a Realistic Feel, Somewhere Series #9 // Halloween Special</i> [Seamless knit garment]. Number 1 Cross Street, Auckland.

## SHANE INDER

Publication Type	Citation
Conference contribution	Ghobakhlou, A., Wang, X., Sallis, P., Inder, S., & Blok, S. (2016). Using WSN for possum management. In <i>Proceedings of the International Conference on Sensing Technology, ICST Vol. 2016-March</i> (pp. 689-693). IEEE Computer Society. doi:10.1109/ICSensT.2015.7438485
Design output	Inder, S. (2016). <i>Audio Amplifier</i> [Mixed Materials]. Kickstarter Crowd Funding Online Platform; <a href="http://www.kickstarter.com">www.kickstarter.com</a> : Kickstarter Crowd Funding Platform. Retrieved from <a href="https://www.kickstarter.com/">https://www.kickstarter.com/</a>
Conference contribution	Eason, C., Shapiro, L., Ross, J., Murphy, E., Ogilvie, S., MacMorran, D., . . . Brimble, M. (2016). Technology Advances for Vertebrate Pest Eradication. In R. M. Timm, & R. A. Baldwin (Eds.), <i>Proceedings 27th Vertebrate Pest Conference</i> . (pp. 390-395). Newport Beach, CA, USA: University of California, Davis.

## SIMON CLARK

Publication Type	Citation
Artwork or artefact	Clark, S. J. (2016). 'Flower power' in the Royal Queenstown Easter Show (No. Of Pieces: 649x749x50mm) [Oil on Board]. 9A Earl St Queenstown. Retrieved from <a href="http://www.milfordgalleries.co.nz/">http://www.milfordgalleries.co.nz/</a>

## STEPHEN REAY

Publication Type	Citation
Journal article	Reay, S. D., Collier, G., Kennedy-Good, J., Old, A., Douglas, R., & Bill, A. (2016). Designing the future of healthcare together: prototyping a hospital co-design space. <i>CoDesign: International Journal of CoCreation in Design and the Arts</i> . doi:10.1080/15710882.2016.1160127
Artwork or artefact	Reay, S. D., Moran, B., & Waters, S. (2016). <i>Particle and Wave</i> [LP (vinyl and digital audio)].
Film and Video	Reay, S. D. (2016). <i>avoid!avoid "flybussen"</i> . <a href="https://www.youtube.com/watch?v=WUWz5yNbr4M">https://www.youtube.com/watch?v=WUWz5yNbr4M</a> . Retrieved from <a href="https://www.youtube.com/watch?v=WUWz5yNbr4M">https://www.youtube.com/watch?v=WUWz5yNbr4M</a>
Film and Video	Reay, S. D. (2016). <i>avoid!avoid "flybussen"</i> . <a href="https://www.youtube.com/watch?v=WUWz5yNbr4M">https://www.youtube.com/watch?v=WUWz5yNbr4M</a> . Retrieved from <a href="https://www.youtube.com/watch?v=WUWz5yNbr4M">https://www.youtube.com/watch?v=WUWz5yNbr4M</a>

## SUSAN HEDGES

Publication Type	Citation
Chapter or section in books	Hedges, S. (2016). The Waiting Drawing. In C. Barton, S. Treadwell, & S. Twose (Eds.), <i>Drawing Is / Not Building</i> (pp. 60-61). Victoria University of Wellington: Adam Art Gallery Te Pataka Toi. Retrieved from <a href="http://www.adamartgallery.org.nz/">http://www.adamartgallery.org.nz/</a>
Conference contribution	Hedges, S. (2016). Shadowy figures and strange interiors: the optician's waiting room. In <i>PROCEEDINGS OF THE FOURTH INTERNATIONAL CONFERENCE OF THE EUROPEAN ARCHITECTURAL HISTORY NETWORK</i> (pp. 19-27). Belfield, Dublin, Ireland: Published by UCD School of Art History and Cultural Policy University College Dublin, Belfield, Dublin, Ireland.. Retrieved from <a href="https://eahn2016conference.files.wordpress.com/">https://eahn2016conference.files.wordpress.com/</a>

## SUSAN JOWSEY

Publication Type	Citation
Conference contribution	Somervell, E. R., Jowsey, S., Williams, M. G. J., Olivares, G., Coulson, G., Longley, I. D., & Blomfield, D. (2016). TEMP – artists and scientists collaborate for the environment. In <i>The 17th IUAPPA World Clean Air Congress and 9th CAA Better Air Quality Conference</i> . Busan, South Korea.
Oral presentation	Jowsey, S. (2016). <i>O-Tu-Kapua - What the Clouds See</i> . Corbans Estate Arts Centre. Retrieved from <a href="http://www.tempauckland.org.nz/">http://www.tempauckland.org.nz/</a>

## TINA ENGELS-SCHWARZPAUL

Publication Type	Citation
Journal article	Engels-Schwarzpaul, A. -C. (2016). Border Crossings: Introduction. <i>Knowledge Cultures</i> , 4(1), 11-24. Retrieved from <a href="http://www.addletonacademicpublishers.com/online-access-kc">http://www.addletonacademicpublishers.com/online-access-kc</a>
Conference contribution	Engels-Schwarzpaul, A. -C. (2016). Travelling houses: Translation, change and ambivalence. In <i>Association for Social Anthropology in Oceania (ASAO) 2016 Meeting</i> . San Diego.
Chapter or section in books	Böhme, G., & Engels-Schwarzpaul, A. -C. (2016). Material splendour: a contribution to the critique aesthetic economy. In <i>Materiality and Architecture</i> (pp. 47-58). Milton Park: Routledge. Retrieved from <a href="https://www.routledge.com/products/9781138840652">https://www.routledge.com/products/9781138840652</a>

Chapter or section in books	Böhme, G., & Engels-Schwarzpaul, A. -C. (2016). Material splendour: a contribution to the critique aesthetic economy. In <i>Materiality and Architecture</i> (pp. 47-58). Milton Park: Routledge. Retrieved from <a href="https://www.routledge.com/products/9781138840652">https://www.routledge.com/products/9781138840652</a>
Journal article	Tina Engels-Schwarzpaul, A. -C. (2016). Response. <i>Educational Philosophy and Theory</i> , 48(5), 542-544. doi:10.1080/00131857.2014.1000570
Chapter or section in books	Engels-Schwarzpaul, A. -C. (2016). The Real Wilderness is Outside: Tropical Island Resort in Germany. In <i>Locations. Anthology of architecture and urbanism. Vol. 1</i> (pp. 48-55). Dhaka, Bangladesh, and Novato, CA: Bengal Foundation and ORO Editions. Retrieved from <a href="http://www.oroeditions.com/book/locations">http://www.oroeditions.com/book/locations</a>
Scholarly edition	Engels-Schwarzpaul, A. -C. (2016). <i>Special Issue: Of Other Thoughts and Renegade Knowledges. Knowledge Cultures</i> , 4(1). Addleton Academic Publishers. Retrieved from <a href="http://www.addletonacademicpublishers.com/online-access-kc">http://www.addletonacademicpublishers.com/online-access-kc</a>

## WELBY INGS

Publication Type	Citation
Journal article	Ings, W. (2016). Supervising Visual Arts Students with Mental Health Issues: Actualising a Duty of Care.. <i>International Journal of Arts Education</i> , 11(4), 9-20. Retrieved from <a href="http://ijae.cgpublisher.com/product/pub.230/prod.102">http://ijae.cgpublisher.com/product/pub.230/prod.102</a>
Journal article	Ings, W. (2016). Telling tales: pedagogical challenges to the supervision of illustrated story design theses.. <i>Journal of Illustration</i> , 3(1), 129-151. doi:10.1386/jill.3.1.129_1
Journal article	Ings, W. (2016). The visible voice: Typographical distinction in thesis writing. <i>TEXT</i> , 20(1), 1-19. Retrieved from <a href="http://textjournal.com.au/april16/ings.htm">http://textjournal.com.au/april16/ings.htm</a>
Conference contribution	Ings, W. (2016). Designing the unknown: supervising design students who manage mental health issues.. In P. Lloyd, & E. Bohemia (Eds.), <i>Designing the unknown: supervising design students who manage mental health issues</i> . Vol. 2 (pp. 483-500). Brighton, U.K.: Design Research Society. Retrieved from <a href="https://www.researchgate.net/">https://www.researchgate.net/</a>
Conference contribution	Ings, W. (2016). Invisible Stories: loss, recovery and the rhetoric of war. Storytelling: Global reflections on narrative. In <i>Storytelling: Global reflections on narrative</i> . Oxford U.K..
Conference contribution	Ings, W. (2016). The Duty of Care: Madness, trust and pedagogical design. In <i>Value &amp; Virtue in Practice-Based Research Conference</i> . York: U.K..
Conference contribution	Ings, W. (2016). The artistic researcher and the land.. In <i>Value &amp; Virtue in Practice-Based Research Conference</i> . York: U.K..
Chapter or section in books	Ings, W. (2016). The creative guerrilla: makers, organisation and belonging.. In <i>Approaches and Methods in Event Studies</i> (pp. 53-66). New York: Routledge. Retrieved from <a href="https://www.routledge.com/">https://www.routledge.com/</a>

ANDREW CONNOR	
Publication Type	Citation
Conference contribution	Kruse, J., Sosa, R., & Connor, A. M. (2016). Procedural Urban Environments for FPS Games. In Karen Blackmore, & Martin Masek (Eds.), <i>ACSW '16 Proceedings of the Australasian Computer Science Week Multiconference</i> . doi:10.1145/2843043.2843479
Book	Connor, A. M., & Marks, S. (2016). <i>Creative Technologies for Multidisciplinary Applications</i> . IGI Global. doi:10.4018/978-1-5225-0016-2
Chapter or section in books	Connor, A. M., Sosa, R., Marks, S., & Jackson, A. G. (2016). Problem solving at the edge of disciplines. In C. Zhou (Ed.), <i>Handbook of Research on Creative Problem-Solving Skill Development in Higher Education</i> . Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0643-0.ch010
Conference contribution	Sosa Medina, R., Rive, P., & Connor, A. M. (2016). 60 years of creativity in business organizations. In <i>Proceedings of DRS 2016, Design Research Society 50th Anniversary Conference</i> . University of Brighton, UK. Retrieved from <a href="http://www.drs2016.org/286">http://www.drs2016.org/286</a>
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Chapter or section in books	Connor, A. M. (2016). A historical review of creative technologies. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 1-24). doi:10.4018/978-1-5225-0016-2.ch001
Chapter or section in books	Connor, A. M. (2016). A historical review of creative technologies. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 1-24). doi:10.4018/978-1-5225-0016-2.ch001
Journal article	Footit, J., Brown, D., Marks, S., & Connor, A. M. (2016). A wearable haptic game controller. <i>International Journal of Game Theory and Technology</i> , 2(1), 1-19. doi:10.5121/ijgtt.2016.2101
Journal article	Footit, J., Brown, D., Marks, S., & Connor, A. M. (2016). Development of a wearable haptic game interface. <i>EAI Endorsed Transactions on Creative Technologies</i> , 3(6). doi:10.4108/eai.25-4-2016.151165
Journal article	"Connor, A. M. (2016). Engaging undergraduates with research to promote cumulative learning. <i>International Journal of Research Studies in Education</i> , 6(2). doi:10.5861/ijrse.2016.1525"
Conference contribution	Connor, A. M., & Karmokar, S. (2016). Re-Engineering Design Through Multiple Disciplinary Lenses. In E. Boherima, L. Buck, K. Eriksen, A. Kovacevic, & N. Ovesen (Eds.), <i>Proceedings of the 18th International Conference on Engineering and Product Design Education (E&amp;PDE16)</i> (pp. 168-178). The Design Society. Retrieved from <a href="https://www.designsociety.org/">https://www.designsociety.org/</a>
ANNA JACKSON	
Publication Type	Citation
Chapter or section in books	Connor, A. M., Sosa, R., Marks, S., & Jackson, A. G. (2016). Problem solving at the edge of disciplines. In C. Zhou (Ed.), <i>Handbook of Research on Creative Problem-Solving Skill Development in Higher Education</i> . Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0643-0.ch010

Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Conference contribution	Jackson, A. (2016). Newsable: turning data into stories. In <i>i-Docs 2016</i> . Bristol, UK. Retrieved from <a href="http://idocs2016.dcrc.org.uk/abstracts/newsable-turning-data-into-stories/">http://idocs2016.dcrc.org.uk/abstracts/newsable-turning-data-into-stories/</a>

## FRANCES JOSEPH

Publication Type	Citation
Journal article	Lin, X., Seet, B. -C., & Joseph, F. (2016). Fine-pitch surface component mounting on screen-printed fabric circuits. <i>Electronics Letters</i> , 52(12), 1032-1034. doi:10.1049/el.2016.1044
Journal article	McLaren, R., Joseph, F., Baguley, C., & Taylor, D. (2016). A review of e-textiles in neurological rehabilitation: How close are we?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 13(1), 59. doi:10.1186/s12984-016-0167-0
Chapter or section in books	Lin, X., Seet, B. -C., & Joseph, F. (2016). Wireless sensing systems for body area networks. In S. C. Mukhopadhyay (Ed.), <i>Sensors for everyday life: Biomedical applications</i> (Vol. 22, pp. 221-239). Springer. doi:10.1007/978-3-319-47319-2_11
Journal article	Joseph, F., Smitheram, M., & Kalyanji, J. (2016). Fluid Materialities: Physical and digital modes of textile making. <i>Making Futures</i> , 11 pages. Retrieved from <a href="http://makingfutures.plymouthart.ac.uk/media/75714/fj_ms_jk.pdf">http://makingfutures.plymouthart.ac.uk/media/75714/fj_ms_jk.pdf</a>
Conference contribution	Joseph, F. (2016). Sapient Textiles : Materiality, Mediation and Embodiment. In <i>Body of Knowledge</i> . UC Irvine. Retrieved from <a href="http://sites.uci.edu/bok2016/">http://sites.uci.edu/bok2016/</a>

## KARL DAVIDSON

Publication Type	Citation
Journal article	Davidson, K. P., & Singamneni, S. (2016). Magnetic Characterization of Selective Laser-Melted Saf 2507 Duplex Stainless Steel. <i>JOM</i> , 1-6. doi:10.1007/s11837-016-2193-6

## LAURENT ANTONCZAK

Publication Type	Citation
Film and Video	Antonczak, L., & Sérapion, F. (2016). <i>Des Ailleurs, et Après – Mobile documentary</i> . online: VIMEO. Retrieved from <a href="https://vimeo.com/167660766">https://vimeo.com/167660766</a>
Conference contribution	Antonczak, L., & Cochrane, T. (2016). Communities of practice: positive peer and student-teacher relationships. In <i>TEU's 'Voices from Tertiary Education' Symposium</i> . Wellington. Retrieved from <a href="http://teu.ac.nz/2016/04/symposium/">http://teu.ac.nz/2016/04/symposium/</a>
Journal article	Antonczak, L., Keegan, H., & Cochrane, T. (2016). mLearning and Creative Practices: a Public Challenge?. <i>International Journal of Mobile and Blended Learning (IJMBL)</i> , 8(4), 35-44. doi:10.4018/IJMBL.2016100103
Conference contribution	Cochrane, T., Sinfield, D., & Mortensen Steagall, M. (2016). Exploring Mobile360: Immersive user-generated mobile images and video. In L. Antonczak, & M. Schleser (Eds.), <i>Mina2016 – Mobile Futures: Poetics, Production and Innovation Vol. 1</i> . Melbourne Australia: Mobile Innovation Network of Australasia. Retrieved from <a href="http://mina.pro/minamobile2016/">http://mina.pro/minamobile2016/</a>
Conference contribution	Cochrane, T., Narayan, V., Antonczak, L., & Burcio-Martin, V. (2016). Modelling Open Practices in Professional Development: Creating a culture of open social scholarship. In M. Highton, & L. Campbell (Eds.), [Online] <i>Proceedings of The 7th Open Educational Resources Conference, OER16: Open Culture</i> . University of Edinburgh, UK: Association for Learning Technology (ALT). Retrieved from <a href="https://oer16.oerconf.org/">https://oer16.oerconf.org/</a>

Journal article	Cochrane, T., Narayan, V., & Antonczak, L. (2016). A Framework for Designing Collaborative Learning Environments Using Mobile AR. <i>Journal of Interactive Learning Research</i> , 27(4), 293–316. Retrieved from <a href="http://www.learntechlib.org/j/JILR">http://www.learntechlib.org/j/JILR</a>
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## MARGARET BUXTON

Publication Type	Citation
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015

## NATHAN SCOTT

Publication Type	Citation
Journal article	Marks, S., Scott, N., & Estevez, J. E. (2016). Immersive visualisation of 3-dimensional spiking neural networks. <i>Evolving Systems</i> .
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1-14. doi:10.1016/j.neunet.2015.09.011
Conference contribution	Kasabov, N., Sengupta, N., & Scott, N. (2016). From von neumann, John Atanasoff and ABC to Neuromorphic computation and the NeuCube spatio-temporal data machine. In <i>IEEE 8th International Conference on Intelligent Systems (IS), 2016</i> (pp. 15–21). Sofia. doi:10.1109/IS.2016.7737434

## PETER RIVE

Publication Type	Citation
Conference contribution	Sosa Medina, R., Rive, P., & Connor, A. M. (2016). 60 years of creativity in business organisations. In <i>Proceedings of DRS 2016, Design Research Society 50th Anniversary Conference</i> . University of Brighton, UK. Retrieved from <a href="http://www.drs2016.org/286">http://www.drs2016.org/286</a>
Chapter or section in books	Rive, P. B. (2016). Virtual design teams in virtual worlds: A theoretical framework using second life. In <i>Analyzing Digital Discourse and Human Behavior in Modern Virtual Environments</i> (pp. 60–86). IGI Global. doi:10.4018/978-1-4666-9899-4.ch004
Conference contribution	Karmokar, S., & Rive, P. (2016). Design Thinking Methods and Creative Technologies in Virtual Worlds. In I. Aaltio, & M. Tunkkari Eskelinen (Eds.), <i>Proceedings of the 11th European Conference on Innovation and Entrepreneurship</i> (pp. 635–645). Jyväskylä, Finland: Academic Conferences and Publishing International Limited.

## RICARDO SOSA MEDINA

Publication Type	Citation
Chapter or section in books	Telenko, C., Sosa Medina, R., & Wood, K. L. (2016). Changing Conversations and Perceptions: The Research and Practice of Design Science. In A. Chakrabarti, & U. Lindemann (Eds.), <i>Impact of Design Research on Industrial Practice</i> (pp. 281–310). Springer. doi:10.1007/978-3-319-19449-3
Chapter or section in books	Sosa Medina, R. (2016). Computational Modelling of Teamwork in Design. In P. Cash, T. Stanković, & M. Storga (Eds.), <i>Experimental Design Research: Approaches, Perspectives, Applications</i> (pp. 173–186). Springer International Publishing Switzerland 2015. doi:10.1007/978-3-319-33781-4_10
Conference contribution	Kruse, J., Sosa, R., & Connor, A. M. (2016). Procedural Urban Environments for FPS Games. In Karen Blackmore, & Martin Masek (Eds.), <i>ACSW '16 Proceedings of the Australasian Computer Science Week Multiconference</i> . doi:10.1145/2843043.2843479

Chapter or section in books	Connor, A. M., Sosa, R., Marks, S., & Jackson, A. G. (2016). Problem solving at the edge of disciplines. In C. Zhou (Ed.), <i>Handbook of Research on Creative Problem-Solving Skill Development in Higher Education</i> . Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0643-0.ch010
Journal article	Sosa, R., Rojas, N., Gero, J. S., & Ku, Q. (2016). Visual divergence in humans and computers. <i>DESIGN STUDIES</i> , 42, 56–85. doi:10.1016/j.destud.2015.10.002
Conference contribution	Sosa Medina, R., Rive, P., & Connor, A. M. (2016). 60 years of creativity in business organizations. In <i>Proceedings of DRS 2016, Design Research Society 50th Anniversary Conference</i> . University of Brighton, UK. Retrieved from <a href="http://www.dr2016.org/286">http://www.dr2016.org/286</a>
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Conference contribution	Sosa Medina, R., & Chaszar, A. (2016). BAD IDEAS IN CREATIVE DESIGN SPACE EXPLORATION. In J. Linsey, & M. Yang (Eds.), <i>2016 International Conference on Design Creativity Vol. 1</i> . USA: The Design Society. Retrieved from <a href="http://icdc2016.gatech.edu/list-of-accepted-papers/">http://icdc2016.gatech.edu/list-of-accepted-papers/</a>
Conference contribution	Sosa Medina, R., Torres, R., Cervera, F., & "O", R. (2016). Eliciting creative views of Tertiary Education through speculative future scenarios: Robot "O". In R. Wass (Ed.), <i>Tertiary Education Research in New Zealand</i> . Dunedin. Retrieved from <a href="http://www.herdsa.org.nz/ternz/2016/">http://www.herdsa.org.nz/ternz/2016/</a>

## SANGEETA KARMOKAR

Publication Type	Citation
Journal article	Singh, H., Karmokar, S., & Tan, F. B. (2016). Using multidisciplinary design principles to improve the website design process. <i>Pacific Asia Journal of the Association for Information Systems</i> , 8(3), 17–44. Retrieved from <a href="http://journal.ecrc.nsysu.edu.tw/index.php/pajais/article/view/353">http://journal.ecrc.nsysu.edu.tw/index.php/pajais/article/view/353</a>
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Conference contribution	Karmokar, S., & Shekar, A. (2016). A Shift in Focus in Engineering Education: Taking into Account the Expanding Roles of Engineers. In E. Bohemia, L. Buck, K. Eriksen, A. Kovacevic, N. Ovesen, & C. Tollestrup (Eds.), <i>Design Education" Collabotation &amp; Cross- Disciplinary</i> . Aalborg, Denmark.
Conference contribution	Karmokar, S. (2016). Managing Super Diverse Women Entrepreneurs in Aotearoa New Zealand. In I. Aaltio, & M. Tunkkari Eskelinen (Eds.), <i>Proceedings of The 11th European Conference on Innovation and Entrepreneurship</i> (pp. 365–372). Jyväskylä, Finland. Retrieved from <a href="http://tinyurl.com/ECIE2016">http://tinyurl.com/ECIE2016</a>
Conference contribution	Karmokar, S., & Rive, P. (2016). Design Thinking Methods and Creative Technologies in Virtual Worlds. In I. Aaltio, & M. Tunkkari Eskelinen (Eds.), <i>Proceedings of the 11th European Conference on Innovation and Entrepreneurship</i> (pp. 635–645). Jyväskylä, Finland: Academic Conferences and Publishing International Limited.
Conference contribution	Connor, A. M., & Karmokar, S. (2016). Re-Engineering Design Through Multiple Disciplinary Lenses. In E. Boherima, L. Buck, K. Eriksen, A. Kovacevic, & N. Ovesen (Eds.), <i>Proceedings of the 18th International Conference on Engineering and Product Design Education (E&amp;PDE16)</i> (pp. 168–178). The Design Society. Retrieved from <a href="https://www.designsociety.org/">https://www.designsociety.org/</a>

## STEFAN MARKS

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1-14. doi:10.1016/j.neunet.2015.09.011
Book	Connor, A. M., & Marks, S. (2016). <i>Creative Technologies for Multidisciplinary Applications</i> . IGI Global. doi:10.4018/978-1-5225-0016-2
Book	Connor, A. M., & Marks, S. (2016). <i>Creative Technologies for Multidisciplinary Applications</i> . IGI Global. doi:10.4018/978-1-5225-0016-2
Chapter or section in books	Connor, A. M., Sosa, R., Marks, S., & Jackson, A. G. (2016). Problem solving at the edge of disciplines. In C. Zhou (Ed.), <i>Handbook of Research on Creative Problem-Solving Skill Development in Higher Education</i> . Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0643-0.ch010
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Chapter or section in books	Connor, A. M., Sosa, R., Karmokar, S., Marks, S., Buxton, M., Gribble, A. M., . . . Footit, J. (2016). Exposing core competencies for future creative technologists. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 373). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0016-2.ch015
Journal article	Footit, J., Brown, D., Marks, S., & Connor, A. M. (2016). A wearable haptic game controller. <i>International Journal of Game Theory and Technology</i> , 2(1), 1-19. doi:10.5121/ijgtt.2016.2101
Journal article	Footit, J., Brown, D., Marks, S., & Connor, A. M. (2016). Development of a wearable haptic game interface. <i>EAI Endorsed Transactions on Creative Technologies</i> , 3(6). doi:10.4108/eai.25-4-2016.151165
Conference contribution	Shaw, L. A., Tourrel, R., Wünsche, B., Lutteroth, C., Marks, S., & Buckley, J. (2016). Design of a virtual trainer for exergaming. In <i>ACM International Conference Proceeding Series</i> . The Australian National University: Association for Computing Machinery. doi:10.1145/2843043.2843384
Conference contribution	Marks, S., & Marks, K. (2016). Step into my (virtual) world. In J. Segedin (Ed.), <i>Artful Transitions - ANZATA 2016 Symposium Programme</i> . Christchurch. Retrieved from <a href="https://www.anzata.org/">https://www.anzata.org/</a>
Conference contribution	Marks, S., & Marks, K. (2016). Step into my (virtual) world. In <i>Society for Mental Health Research (SMHR) Conference 2016</i> . Sydney.

## COMMUNICATION STUDIES

### ALAN COCKER

Publication Type	Citation
Journal article	Cocker, A. (2016). Malcolm Ross, journalist and photographer: The perfect war correspondent?. <i>Pacific Journalism Review</i> , 22(1), 152-166. Retrieved from <a href="http://www.pjreview.info/">http://www.pjreview.info/</a>

### ALLAN LEE

Publication Type	Citation
Journal article	Treadwell, G., Ross, T., Lee, A., & Lowenstein, J. K. (2016). A Numbers Game: Two Case Studies in Teaching Data Journalism. <i>Journalism &amp; Mass Communication Educator</i> , 71(3), 297-308. doi:10.1177/1077695816665215

### ANGELIQUE NAIRN

Publication Type	Citation
Conference contribution	Nairn, A., Annabell, T., & Nelson, F. (2016). Slippery Eels: A thematic analysis of NRL supporters' responses to the Parramatta Eels salary cap scandal.. In M. Naylor (Ed.), <i>Sports Management Association of Australia and New Zealand</i> . Auckland, NZ. Retrieved from <a href="https://sprinz.aut.ac.nz/">https://sprinz.aut.ac.nz/</a>
Conference contribution	Nairn, A., Annabell, T., & Nelson, F. (2016). Robbing from the rich to give to the needy: A thematic analysis of the illegal streaming of the Parker vs Takam fight. In M. Naylor (Ed.), <i>SMAANZ</i> . Auckland, NZ. Retrieved from <a href="https://sprinz.aut.ac.nz/">https://sprinz.aut.ac.nz/</a>

### AVERILL GORDON

Publication Type	Citation
Film and Video	Cronin, C., Cochrane, T., & Gordon, A. (2016). Nurturing global collaboration. <i>Research in Learning Technology</i> . Retrieved from <a href="http://www.researchinlearningtechnology.net/index.php/rlt/article/view/26497">http://www.researchinlearningtechnology.net/index.php/rlt/article/view/26497</a>

### BARRYMORE KING

Publication Type	Citation
Journal article	King, B. (2016). Extended Book review Stephen Gundle, <i>Mussolini's Dream Factory: Film Stardom in Fascist Italy</i> , Berghahn Books, 2013. <i>Celebrity studies</i> , Vol 7(1), 125-135. doi:10.1080/19392397.2016.1104916

### BRYN EVANS

Publication Type	Citation
Journal article	Evans, B., & Fitzgerald, R. (2016). 'It's training man! Membership categorisation and the institutional moral order of basketball training. <i>Australian Journal of Linguistics</i> , 36(2). doi:10.1080/07268602.2015.1121531
Conference contribution	Evans, B., & Lindwall, O. (2016). The embodied and sequential organization of correction in basketball practice. In <i>International Society for Gesture Studies Conference 2016</i> . Paris, France. Retrieved from <a href="https://isgs7.sciencesconf.org/?lang=en">https://isgs7.sciencesconf.org/?lang=en</a>
Journal article	Evans, B., & Reynolds, E. (2016). The organization of corrective demonstrations using embodied action in sports coaching feedback. <i>Symbolic Interaction</i> , 39(4), 525-556. doi:10.1002/symb.255

Conference contribution	Reynolds, E., & Evans, B. (2016). The organization of corrective demonstrations using embodied action in sports coaching feedback. In <i>American Sociological Association Annual Meeting 2016</i> . Seattle, WA. Retrieved from <a href="http://www.asanet.org/annual-meeting/preliminary-program">http://www.asanet.org/annual-meeting/preliminary-program</a>
Conference contribution	Evans, B. (2016). The embodied and sequential organisation of instructional demonstrations in basketball practice. In <i>The Sixth Annual Meeting of the Language and Social Interaction Working Group</i> . New York City. Retrieved from <a href="http://www.tc.columbia.edu/lansi/conference/view-programs/6th-meeting-2016/">http://www.tc.columbia.edu/lansi/conference/view-programs/6th-meeting-2016/</a>
Journal article	Evans, B., & Fitzgerald, R. (2016). 'You Gotta See Both at the Same Time': Visually Analyzing Player Performances in Basketball Coaching. <i>Human Studies</i> . doi:10.1007/s10746-016-9415-3

## DAVID ROBIE

Publication Type	Citation
Journal article	Robie, D. (2016). La'o Hamutuk and Timor-Leste's development challenges : A case study in human rights and collaborative journalism. <i>Media Asia</i> , 42 (3-4), pp. 209-224. Retrieved from <a href="http://www.tandfonline.com/doi/abs/10.1080/01296612.2016.1142247">http://www.tandfonline.com/doi/abs/10.1080/01296612.2016.1142247</a>
Other form of output	Robie, D. (2016). Café Pacific : Media freedom and transparency. In <i>National Library of New Zealand Digital Archive</i> . [Online]. Auckland: Asia Pacific Network. Retrieved from <a href="http://ndhadeliver.natlib.govt.nz/">http://ndhadeliver.natlib.govt.nz/</a>
Report	Robie, D. (2016). <i>Freedom of the Press Report 2016 [Freedom House, New York]</i> . New York, USA: Freedom House. Retrieved from <a href="https://freedomhouse.org/report/freedom-press/freedom-press-2016">https://freedomhouse.org/report/freedom-press/freedom-press-2016</a>
Report	Robie, D. (2016). <i>World Press Freedom Index 2016 [Reporters Without Borders, Paris]: 2016 World Press Freedom Index – leaders paranoid about journalists</i> . Paris, France: Reporters Without Borders/ Reporters Sans Frontieres. Retrieved from <a href="http://rsf.org/en/ranking">http://rsf.org/en/ranking</a>
Oral presentation	Robie, D. (2016). <i>Human rights advocacy as a 'mindful' journalist: From human rights abuses reports to defending freedom of speech to rights-based journalism</i> . Nadi, Fiji Islands. Retrieved from <a href="http://cafepacific.blogspot.co.nz/2016/04/pacific-human-rights-advocacy-as.html">http://cafepacific.blogspot.co.nz/2016/04/pacific-human-rights-advocacy-as.html</a>
Journal article	Robie, D. (2016). The Rainbow Warrior, secrecy and state terrorism: A Pacific journalism case study. <i>Pacific Journalism Review</i> , 22(1), 187-213. Retrieved from <a href="https://pjreview.aut.ac.nz/">https://pjreview.aut.ac.nz/</a>
Conference contribution	Robie, D. (2016). Tanah Papua, Asia-Pacific news blind spots and citizen media: From the 'Act of Free Choice' betrayal to a social media revolution. In <i>51st Foreign Policy School: Global Polics from State to Social Media</i> . St Margaret's College, Leith St, Dunedin. Retrieved from <a href="http://www.otago.ac.nz/foreign-policy-school/2016/programme/index.html">http://www.otago.ac.nz/foreign-policy-school/2016/programme/index.html</a>
Conference contribution	Robie, D. (2016). From Pacific Scoop to Asia Pacific Report: A case study in an independent campus-industry partnership. In <i>4th World Journalism Education Congress</i> . Auckland: Auckland University of Technology. Retrieved from <a href="http://www.wjec.aut.ac.nz/">http://www.wjec.aut.ac.nz/</a>
Oral presentation	Robie, D. (2016). <i>From Uni Tavar to Asia Pacific Report: Case studies in campus-based social justice media</i> . University of Queensland. Retrieved from <a href="http://uq.edu.au/ccsc/from-uni-tavar-to-asia-pacific-report">http://uq.edu.au/ccsc/from-uni-tavar-to-asia-pacific-report</a>
Conference contribution	Robie, D. (2016). Media, Communication and Social Change: From Uni Tavar to Asia Pacific Report: case studies in campus-based social justice media. In <i>Social Movements, Resistance and Social Change III - 2016 Abstracts</i> (pp. 50). Victoria University of Wellington. Retrieved from <a href="http://counterfutures.nz/SMRSCIII_Abstracts.pdf">http://counterfutures.nz/SMRSCIII_Abstracts.pdf</a>

Journal article	Robie, D. (2016). From Pacific Scoop to Asia Pacific Report: A case study in an independent campus-industry media partnership. <i>Pacific Journalism Review</i> , 22(2), 64–86. Retrieved from <a href="https://pjreview.aut.ac.nz/articles/pacific-scoop-asia-pacific-report-1539">https://pjreview.aut.ac.nz/articles/pacific-scoop-asia-pacific-report-1539</a>
Journal article	Robie, D. (2016). Drone killings on a par with mafia hitmen [Book Review]. <i>Pacific Journalism</i> , 22(2), 207–209. Retrieved from <a href="http://search.informit.com.au/documentSummary;dn=599458395544407;res=IELHSS">http://search.informit.com.au/documentSummary;dn=599458395544407;res=IELHSS</a>
Journal article	Robie, D. (2016). Merdeka: Media and the case for Papuan civil resistance [Book Review]. <i>Pacific Journalism Review</i> , 22(1), 241–244. Retrieved from <a href="http://search.informit.com.au/documentSummary;dn=183272349521252;res=IELHSS">http://search.informit.com.au/documentSummary;dn=183272349521252;res=IELHSS</a>
Journal article	Robie, D. (2016). Ruthless tidal wave [Editorial]. <i>Pacific Journalism Review</i> , 22(1), 6–12. Retrieved from <a href="http://search.informit.com.au/documentSummary;dn=183179184664961;res=IELHSS">http://search.informit.com.au/documentSummary;dn=183179184664961;res=IELHSS</a>
Journal article	Cass, P., & Robie, D. (2016). Finding the Pacific voice [Editorial]. <i>Pacific Journalism</i> , 22(2), 6–10. Retrieved from <a href="http://search.informit.com.au/documentSummary;dn=598601278866530;res=IELHSS">http://search.informit.com.au/documentSummary;dn=598601278866530;res=IELHSS</a>

## FRANCES NELSON

Publication Type	Citation
Conference contribution	Nairn, A., Annabell, T., & Nelson, F. (2016). Slippery Eels: A thematic analysis of NRL supporters' responses to the Parramatta Eels salary cap scandal.. In M. Naylor (Ed.), <i>Sports Management Association of Australia and New Zealand</i> . Auckland, NZ. Retrieved from <a href="https://sprinz.aut.ac.nz/">https://sprinz.aut.ac.nz/</a>
Conference contribution	Nairn, A., Annabell, T., & Nelson, F. (2016). Robbing from the rich to give to the needy: A thematic analysis of the illegal streaming of the Parker vs Takam fight. In M. Naylor (Ed.), <i>SMAANZ</i> . Auckland, NZ. Retrieved from <a href="https://sprinz.aut.ac.nz/">https://sprinz.aut.ac.nz/</a>

## GEOFFREY CRAIG

Publication Type	Citation
Book	Craig, G. (2016). <i>Performing Politics: Media Interviews, Debates and Press Conferences</i> . Cambridge: Polity. Retrieved from <a href="http://www.polity.co.uk/book.asp?ref=9780745689616">http://www.polity.co.uk/book.asp?ref=9780745689616</a>
Book	Craig, G. (2016). Green Grand Designs: Sustainability and lifestyle in eco-reality television." Presentation at the . Newcastle, Australia. July.. In <i>Australian and New Zealand Communication Association</i> . Newcastle, Australia. Retrieved from <a href="http://www.anzca.net/conferences.html">http://www.anzca.net/conferences.html</a>

## GREGORY TREADWELL

Publication Type	Citation
Journal article	Treadwell, G., Ross, T., Lee, A., & Lowenstein, J. K. (2016). A Numbers Game: Two Case Studies in Teaching Data Journalism. <i>Journalism &amp; Mass Communication Educator</i> , 71(3), 297–308. doi:10.1177/1077695816665215

## GUDRUN FROMMHERZ

Publication Type	Citation
Conference contribution	Frommherz, G., & Guinibert, M. (2016). Inside Out: An appraisal of digital journalism education from a visual communication perspective. In <i>4th World Journalism Education Conference</i> . Auckland University of Technology.

## HELEN SISSONS

Publication Type	Citation
Chapter or section in books	Cochrane, T., Sissons, H., Mulrennan, D., & Rive, V. (2016). Journalism 2.0: Collaborative curriculum redesign. In D. Parsons (Ed.), <i>Mobile and Blended Learning innovations for improved Learning Outcomes</i> (pp. 181-200). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-0359-0
Journal article	Smith, P., & Sissons, H. (2016). Social media and a case of mistaken identity: A newspaper's response to journalistic error. <i>Journalism</i> . doi:10.1177/1464884916683551
Journal article	Sissons, H. (2016). Journalists and public relations practitioners: Power and agency at a media conference. <i>Australian Journalism Review</i> , 38(2), 31-45. Retrieved from <a href="https://search.informit.com.au/browseJournalTitle;res=IELLCC;issn=0810-2686">https://search.informit.com.au/browseJournalTitle;res=IELLCC;issn=0810-2686</a>
Conference contribution	Sissons, H., & Varoli Piazza, C. (2016). Hidden truth: Improving verification skills in the classroom and the newsroom.. In <i>World Journalism Education Congress</i> . Auckland.

## JACQUELINE HARRISON

Publication Type	Citation
Journal article	Barnes, L., Tupou, J., & Harrison, J. (2016). Rolling with the punches: Why it's ethical to practice death-knocks. <i>Asia Pacific Media Educator</i> , 26(1), 51-64. doi:10.1177/1326365X16640345

## JANET TUPOU

Publication Type	Citation
Journal article	Barnes, L., Tupou, J., & Harrison, J. (2016). Rolling with the punches: Why it's ethical to practice death-knocks. <i>Asia Pacific Media Educator</i> , 26(1), 51-64. doi:10.1177/1326365X16640345

## JESSE PIRINI

Publication Type	Citation
Journal article	Pirini, J. (2016). Intersubjectivity and Materiality: A multimodal perspective. <i>Multimodal Communication</i> , 5, 1-14.
Conference contribution	Pirini, J. (2016). Agency in research into high school tutoring: Developing a theoretical/methodological tool. In <i>8th International Conference on Multimodality</i> . Cape Town, South Africa.
Conference contribution	Pirini, J., & Norris, S. (2016). Communicating knowledge via videoconferencing technology: A multimodal analysis. In <i>8th International Conference on Multimodality</i> . Cape Town, South Africa.

## MARILYN JEANNE BARNES

Publication Type	Citation
Journal article	Barnes, L. (2016). An inexplicable gap: Journalism and gender in New Zealand. <i>Journalism</i> . doi:10.1177/1464884915620231
Chapter or section in books	Barnes, M. (2016). Behind the headlines: New technology's role in stress relief. In K. O'Donnell (Ed.), <i>Ruptured Voice</i> (pp. 109-120). Oxford, United Kingdom: Inter-Disciplinary Press. Retrieved from <a href="http://www.inter-disciplinary.net/">http://www.inter-disciplinary.net/</a>

Chapter or section in books	Barnes, M. (2016). Preparing journalists for the inevitable. In <i>Where to from here? Examining conflict-related and relational interaction trauma</i> (pp. vii–211). Oxford, United Kingdom: Inter-Disciplinary Press <a href="http://www.inter-disciplinary.net/publishing">http://www.inter-disciplinary.net/publishing</a> . Retrieved from <a href="http://www.inter-disciplinary.net/">http://www.inter-disciplinary.net/</a>
Journal article	Barnes, L., Tupou, J., & Harrison, J. (2016). Rolling with the punches: Why it's ethical to practice death-knocks. <i>Asia Pacific Media Educator</i> , 26(1), 51–64. doi:10.1177/1326365X16640345

## MATT MOLLGAARD

Publication Type	Citation
Conference contribution	Mollgaard, M. (2016). Nurturing New Zealand Music: Nationalism, nuance and noise. In <i>Food//Love/God: Popular Culture Research Centre Annual Research Symposium</i> . Auckland, New Zealand. Retrieved from <a href="http://www.aut.ac.nz/">http://www.aut.ac.nz/</a>
Journal article	Mollgaard, M. (2016). Pop, Power and Politics: Kiwi FM and the 'Third Way' in New Zealand. <i>MEDIANZ: Media Studies Journal of Aotearoa New Zealand</i> , 15(2), 28 pages. doi:10.11157/medianz-vol15iss2id142
Conference contribution	Mollgaard, M. (2016). Radio New Zealand International: Service, politics and diplomacy in South Pacific media. In <i>The Radio Conference: A Transnational Forum</i> . Utrecht, The Netherlands: Utrecht University and Netherlands Institute for Sound and Vision Hilversum. Retrieved from <a href="http://www.transnationalradio.org/conference">http://www.transnationalradio.org/conference</a>
Conference contribution	Mollgaard, M. (2016). Radio New Zealand International: Reporting the Pacific in tight times.. In <i>4th World Journalism Education Congress Conference 2016</i> . Auckland, New Zealand.

## MATTHEW GUINIBERT

Publication Type	Citation
Conference contribution	Frommherz, G., & Guinibert, M. (2016). Inside Out: An appraisal of digital journalism education from a visual communication perspective. In <i>4th World Journalism Education Conference</i> . Auckland University of Technology.

## PAUL JANMAN

Publication Type	Citation
Book	Helu, I. F., Hamilton, S., & Janman, P (Producer - DVD). (2016). <i>On Tongan Poetry</i> . Auckland: Atuanui Press. Retrieved from <a href="http://www.atuanuipress.co.nz/authors/i-futa-helu/">http://www.atuanuipress.co.nz/authors/i-futa-helu/</a>
Oral presentation	Janman, P. (2016). <i>Toia Talks: Fragments of the Great South Road</i> . Ōtāhuhu, Auckland. Retrieved from <a href="https://scontent.fakl1-1.fna.fbcdn.net/">https://scontent.fakl1-1.fna.fbcdn.net/</a>
Oral presentation	Janman, P. (2016). <i>Ghost South Road</i> . Auckland. Retrieved from <a href="http://www.writersfestival.co.nz/">http://www.writersfestival.co.nz/</a>

## PETER MORTON HOAR

Publication Type	Citation
Other form of output	Hoar, P. (2016). Edo de Waart's Masterworks: Mahler 3. A review of the New Zealand Symphony Orchestra's performance of Gustav Mahler's Symphony no.3 in d minor.. [Radio]. Radio New Zealand Concert: Upbeat with Eva Radich: Music News & current Affairs. Retrieved from <a href="http://www.radionz.co.nz/">http://www.radionz.co.nz/</a>

Other form of output	"Hoar, P. (2016). Degenerate Music: Auckland Philharmonia Orchestra: Johannes Fritsch – Cond., Michael Barenboim – Violin, Stravinsky – Scherzo à la Russe Schoenberg – Violin Concerto OP.36 Mendelssohn – Symphony No. 5 in D major/D minor, Op. 107, 'Reformation' Concert review. [Radio Broadcast]. Upbeat with Eva Radich: Music News & Current Affairs: Radio New Zealand Concert. Retrieved from <a href="http://www.radionz.co.nz/">http://www.radionz.co.nz/</a> "
Other form of output	Hoar, P. (2016). Welcome Maestro: Auckland Philharmonia Orchestra welcomes its new Music Director Giordano Bellincampi : Ligeti – Atmospheres, Mozart – Symphony No.40, Strauss – Ein Heldenleben. [Radio Broadcast]. Radio New Zealand Concert: Upbeat with Eva Radich: Music News & current Affairs. Retrieved from <a href="http://www.radionz.co.nz/concert/programmes/upbeat/audio/201798094/peter-hoar">http://www.radionz.co.nz/concert/programmes/upbeat/audio/201798094/peter-hoar</a>
Other form of output	"Hoar, P. (2016). Poetry and Power: Auckland Philharmonia Orchestra with conductor Antonio Méndez and pianist Dejan Lazić: Brahms – Piano Concerto No.1, Debussy – Images: Ibéria, Ravel – Rapsodie Espagnole.. Radio New Zealand Concert: Upbeat with Eva Radich: Music News & Current Affairs. Retrieved from <a href="http://www.radionz.co.nz/">http://www.radionz.co.nz/</a> "

## PETRONELLA THEUNISSEN

Publication Type	Citation
Journal article	Kent, M. L., & Theunissen, P. (2016). Elegy for Mediated Dialogue: Shiva the Destroyer and Reclaiming Our First Principles. <i>International Journal of Communication</i> , 10, 4040–4054. Retrieved from <a href="http://ijoc.org.ezproxy.aut.ac.nz/index.php/ijoc#more1">http://ijoc.org.ezproxy.aut.ac.nz/index.php/ijoc#more1</a>
Conference contribution	Kent, M. L., & Theunissen, P. (2016). Strategic Rhetoric, Dialogue, and the Long Now. In <i>International Communication Association</i> . Fukuoka Hilton, Kei.
Oral presentation	Theunissen, P. (2016). <i>Philosophy of engagement</i> . Shah Alam, Malaysia.

## RICHARD PAMATATAU

Publication Type	Citation
Chapter or section in books	Vui-Talitu, S., & Pamatatau, R. (2016). Niu views on public broadcasting. In Johnson E, Tiso G, Illingworth S, & Bennett B (Eds.), <i>Don't dream it's over - Reimagining journalism in New Zealand</i> . Christchurch, New Zealand: Freerange Press. Retrieved from <a href="http://www.projectfreerange.com/freerange-press/">http://www.projectfreerange.com/freerange-press/</a>

## ROSS BRANNIGAN

Publication Type	Citation
Conference contribution	Brannigan, R. (2016). The Actor Persists – A Post Postdramatic Exploration.. In <i>ADSA (The Australasian Association for Theatre, Drama and Performance Studies) Resilience: Revive, Restore, Reconnect.2016</i> . USQ Toowoomba Campus, Australia. Retrieved from <a href="https://vimeo.com/user10756933/review/173427701/20c12f44d2">https://vimeo.com/user10756933/review/173427701/20c12f44d2</a>

## ROSSER JOHNSON

Publication Type	Citation
Journal article	Crudge, M., Nelson, F. M., & Johnson, R. J. K. (2016). Communication, Church and Society: a Story of Qualitative Enquiry. <i>Ecclesial Practices</i> , 3(1), 94–119. doi:10.1163/22144471-00301006

Journal article	Johnson, R. (2016). (Re)constructing "worth" in reality television. A case study of The Block New Zealand.. <i>Australasian Journal of Popular Culture</i> , 5(2-3), 125-133.
Conference contribution	Johnson, R. (2016). The spectacular self: a critical examination of televised "speed eating". In <i>Food, God, Love</i> . Auckland University of Technology.
Conference contribution	Johnson, R. (2016). Hypercommercial Television: An Introduction. In <i>7th Annual PopCAANZ conference</i> . Sydney University.
Journal article	Johnson, R. (2016). The Influence of the Infomercial in New Zealand. <i>Back Story: Journal of New Zealand art, media &amp; design history</i> , 1(1), 67-80.
Conference contribution	Johnson, R. (2016). Hypercommercial Television in New Zealand 1994-2003. In Peer Reviewed Proceedings of the 7th Annual Conference Popular Culture Association of Australia and New Zealand (PopCAANZ) (pp. 98-107). Retrieved from <a href="http://popcaanz.com/conference-proceedings-2016/">http://popcaanz.com/conference-proceedings-2016/</a>

## SARAH BAKER

Publication Type	Citation
Chapter or section in books	Baker, S. (2016). The Future of Public Broadcasting. In E. Johnson, G. Tiso, S. Illingworth, & B. Bennett (Eds.), <i>Don't Dream it's over: Reimagining Journalism</i> . Christchurch: Freerange Press. Retrieved from <a href="http://www.projectfreerange.com/freerange-press/">http://www.projectfreerange.com/freerange-press/</a>

## SIGRID NORRIS

Publication Type	Citation
Book	Norris, S. (2016). <i>Liebe und Trennung: Gedichte aus ethnographischen Feldstudien / Love and Separation: Ethnographic Field Poetry</i> . Germany: Mykum Verlag. Retrieved from <a href="https://mykumverlag-shop.de/">https://mykumverlag-shop.de/</a>
Journal article	Norris, S. (2016). Concepts in multimodal discourse analysis with examples from video conferencing. <i>Yearbook of the Poznan Linguistic Meeting</i> , 2(1), 141-165. doi:10.1515/yplm-2016-0007
Chapter or section in books	Norris, S. (2016). Multimodal Interaction – Language and Modal Configurations. In N. -M. Klug, & H. Stöckl (Eds.), <i>Handbuch Sprache im multimodalen Kontext</i> (pp. 121-142). Berlin & Boston: de Gruyter. doi:10.1515/9783110296099-006
Conference contribution	Norris, S. (2016). Multimodality and attention in family video conferencing interactions. In <i>1st International Sociolinguistic Conference</i> . Budapest, Hungary.
Conference contribution	Norris, S. (2016). Identity production in Family Videoconferences: A multimodal Analysis. In <i>Critical Approaches to Discourse Analysis across Disciplines Conference</i> . Sicily. Retrieved from <a href="http://www.cadaad.net/conferences/previous-conferences/">http://www.cadaad.net/conferences/previous-conferences/</a>
Conference contribution	Khan, Y., & Norris, S. (2016). Who pays attention in family video conferences? A multimodal (inter) action analysis.. In <i>The 8th International Conference on Multimodality (8ICOM)</i> . Cape Town, South Africa. Retrieved from <a href="http://8icom.co.za/">http://8icom.co.za/</a>
Conference contribution	Pirini, J., & Norris, S. (2016). Communicating knowledge via videoconferencing technology: A multimodal analysis. In <i>The 8th International Conference on Multimodality</i> . Cape Town, South Africa.
Journal article	Norris, S., & Pirini, J. (2016). Communicating Knowledge, Getting Attention, and Negotiating Disagreement via Video Conferencing Technology: A Multimodal Analysis. <i>Journal of Organizational Knowledge Communication</i> , 3 (1), 23-48. doi:10.7146/jookc.v3i1.23876

## THOMAS OWEN

Publication Type	Citation
Journal article	Owen, T. (2016). Levi Obijiofor, New technologies in developing societies. <i>Communication Research and Practice</i> , 2(1), 111-112. doi:10.1080/22041451.2016.1155342
Chapter or section in books	Owen, T. (2016). Neocolonialism, nation-building and global journalism in Aotearoa news. In Johnson, E, Tiso, G, Illingworth, S, & Bennett, B (Eds.), <i>Don't Dream It's Over: Reclaiming Journalism in Aotearoa New Zealand</i> (pp. 103-110). Christchurch, NZ: Freerange Press.

## VERICA RUPAR

Publication Type	Citation
Journal article	Rupar, V. (2016). Identity and integrity of journalism education worldwide. <i>Journalism and Mass Communication Educator</i> , 71 (3), 295-296. doi:10.1177/1077695816665847

## WAYNE HOPE

Publication Type	Citation
Book	Hope, W. J. (2016). Time, communication and global capitalism. London: Palgrave. Retrieved from <a href="http://www.palgrave.com/us/book/9781137443458">http://www.palgrave.com/us/book/9781137443458</a>
Chapter or section in books	Hope, W. J., Hirst, M., & Thompson, P. (2016). Australia and New Zealand. In B. Birkenbine, R. Gomez, & J. Wasko (Eds.), <i>Global Media Giants</i> (pp. 351-365). London: Routledge. Retrieved from <a href="https://www.routledge.com/">https://www.routledge.com/</a>

## YULIA KHAN

Publication Type	Citation
Conference contribution	Khan, Y. (2016). A multimodal (inter)action analysis of migrant business identities. In <i>The 8th International Conference on Multimodality (8ICOM)</i> . Cape Town, South Africa. Retrieved from <a href="http://8icom.co.za/">http://8icom.co.za/</a>
Conference contribution	Khan, Y., & Norris, S. (2016). Who pays attention in family video conferences? A multimodal (inter) action analysis.. In <i>The 8th International Conference on Multimodality (8ICOM)</i> . Cape Town, South Africa. Retrieved from <a href="http://8icom.co.za/">http://8icom.co.za/</a>

## ENGINEERING, COMPUTER AND MATHEMATICAL SCIENCES

### AASIM ULLAH

Publication Type	Citation
Conference contribution	Ullah, A., Lie, T. T., Gunawardane, K., & Nair, N. K. C. (2016). Development of Browne's Arc Model for HTS applications. In 2016 IEEE International Conference on Power Systems Technology. Australia. Retrieved from <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7753971">http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7753971</a>

### ACHALA PERERA

Publication Type	Citation
Journal article	Perera, A., & Collins, J. (2016). Novel Embedded System Based Species Recognition System for Pest Control. <i>International Journal of Computing and Digital Systems</i> , 5(5), 387–393. doi:10.12785/ijcids/050503

### ADAM TAYLOR

Publication Type	Citation
Journal article	Taylor, A., & Parker, B. (2016). A 2-Port Network Model of a Z-Source Converter. <i>International Journal of Advances in Computer Networks and Its Security</i> , 6(1), 75–80.
Journal article	Taylor, A. (2016). A comparative analysis of a white-roof installation during a New Zealand autumn and winter. <i>International Journal of Sustainable Building Technology and Urban Development</i> , 7(1), 52–60. doi:10.1080/2093761X.2016.1167644
Conference contribution	Nkom, B., Taylor, A., Baguley, C., Seet, B. -C., & Lie, T. T. (2016). A unified approach to characterizing medium to low voltage powerline communication channels. In IEEE International Conference on Power Systems Technology (POWERCON) (pp. 7 pages). Wollongong, Australia: IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/abstract/document/7753995/">http://ieeexplore.ieee.org/abstract/document/7753995/</a>

### ADNAN AL-ANBUKY

Publication Type	Citation
Journal article	Memon, S. K., Sarkar, N. I., & Al-Anbuky, A. (2016). Multiple preemptive EDCA for emergency medium access control in distributed WLANs. <i>Wireless Networks</i> , 22(2), 1–12. doi:10.1007/s11276-016-1236-9
Journal article	Villari, M., Al-Anbuky, A., Celesti, A., & Moessner, K. (2016). Leveraging the Internet of Things: Integration of Sensors and Cloud Computing Systems. <i>International Journal of Distributed Sensor Networks</i> , 12(7), 9764287. doi:10.1177/155014779764287
Conference contribution	Luo, B., Liu, W., & Al-Anbuky, A. (2016). SustainMe if you can: Sustainable transmission networking design for Big Data. In 2016 IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS) (pp. 265–270). San Francisco, CA, USA. doi:10.1109/INFOCOMW.2016.7562084
Conference contribution	Memon, A., Liu, W., & Al-Anbuky, A. (2016). CatchMe If You Can: Enable Sustainable Communications Using Internet of Movable Things. In 2016 IEEE 14th Intl Conf on Dependable, Autonomic and Secure Computing, 14th Intl Conf on Pervasive Intelligence and Computing, 2nd Intl Conf on Big Data Intelligence and Computing and Cyber Science and Technology Congress(DASC/PiCom/DataCom/CyberSciTech) (pp. 947–952). doi:10.1109/DASC-PiCom-DataCom-CyberSciTec.2016.163
Chapter or section in books	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). Dynamic Trust Elective Geo Routing to Secure Smart Grid Communication Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 323–343). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch014
Journal article	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). The critical role of structural hole in forming trust for Securing Wireless Sensor Networks. <i>International Journal of Information, Communication Technology and Applications</i> , 2(1), 66. doi:10.17972/ijicta20162127

**AHMED AL-JUMAILY**

Publication Type	Citation
Journal article	Pethaiah, S. S., Arunkumar, J., Ramos, M., Al-Jumaily, A., & Manivannan, N. (2016). The impact of anode design on fuel crossover of direct ethanol fuel cell. <i>Bulletin of Materials Science</i> , 39(1), 273–278.
Journal article	Anand, G., Lowe, A., & Al-Jumaily, A. M. (2016). Parametric Electrical Modelling of Human Forearm Simulation Response Using Multi-Frequency Electrical Bioimpedance. <i>Journal of Biosensors &amp; Bioelectronics</i> , 7. doi:10.4172/2155-6210.1000206
Journal article	Anand, G., Lowe, A., & Al-Jumaily, A. M. (2016). Simulation of impedance measurements at human forearm within 1 kHz to 2 MHz. <i>Journal of Electrical Bioimpedance</i> , 7, 20. doi:10.5617/jeb.2657
Journal article	Kalra, A., Lowe, A., & Al-Jumaily, A. (2016). Quantifying Skin Stretch induced Motion Artifact from an Electrocardiogram signal—A Pilot Study. <i>Journal of Biosensors &amp; Bioelectronics</i> , 7(2). doi:10.4172/2155-6210.1000204
Journal article	Chowdhury, N. A., & Al-Jumaily, A. M. (2016). Regenerated cellulose/polypyrrole/silver nanoparticles/ionic liquid composite films for potential wound healing applications. <i>Wound Medicine</i> , 14, 16–18. doi:10.1016/j.wndm.2016.07.001
Journal article	Vuong, T. X., & Al-Jumaily, A. M. (2016). An investigation into the noise generation of CPAP devices: Experimental and numerical study. <i>Applied Acoustics</i> , 114, 281–293. doi:10.1016/j.apacoust.2016.08.005
Journal article	Al-Jumaily, A. M., & Wang, L. (2016). Computer-controlled Eucapnic voluntary hyperpnea challenge method. <i>Journal of Medical Devices, Transactions of the ASME</i> , 10(4). doi:10.1115/1.4034146
Journal article	Kalra, A., Lowe, A., & Al-Jumaily, A. (2016). Mechanical behaviour of skin: A review. <i>Journal of Material Science &amp; Engineering</i> , 5(4). doi:10.4172/2169-0022.1000254
Journal article	Ashaat, S., & Al-Jumaily, A. M. (2016). Reducing upper airway collapse at lower continuous positive airway titration pressure. <i>Journal of Biomechanics</i> , 49(16), 3915–3922. doi:10.1016/j.jbiomech.2016.11.005
Journal article	Jo-Avila, M. J., & Al-Jumaily, A. M. (2016). Superimposed pressure oscillations: an alternative to treat airway hyperresponsiveness in an acute sensitized airways mouse model. <i>Respir Physiol Neurobiol</i> . doi:10.1016/j.resp.2016.12.002

**AJIT NARAYANAN**

Publication Type	Citation
Conference contribution	Naidu, V., & Narayanan, A. (2016). A syntactic approach for detecting viral polymorphic malware variants. In M. Chau, G. A. Wang, & H. Chen (Eds.), <i>Intelligence and Security Informatics Vol. 9650</i> (pp. 146–165). Springer Verlag. doi:10.1007/978-3-319-31863-9_11
Conference contribution	Usman, A., Liu, W., Bai, Q., & Narayanan, A. (2016). Exploring the Role of Structural Similarity in Securing Smart Metering Infrastructure. In <i>2015 IEEE International Conference on Data Science and Data Intensive Systems</i> (pp. 343–349). Sydney, Australia: IEEE DSDIS Proceedings. doi:10.1109/DSDIS.2015.95
Conference contribution	Tirumala, S. S., & Narayanan, A. (2016). Attribute selection and classification of prostate cancer gene expression data using artificial neural networks. In <i>Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics) Vol. 9794</i> (pp. 26–34). doi:10.1007/978-3-319-42996-0_3
Conference contribution	Yang, M. L., Narayanan, A., Parry, D., & Wang, X. (2016). A lightweight authentication scheme for transport system farecards. In <i>2016 IEEE International Conference on RFID Technology and Applications, RFID-TA 2016</i> (pp. 150–155). Marriott Hotel: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/RFID-TA.2016.7750746

Conference contribution	Naidu, V., & Narayanan, A. (2016). Needleman–Wunsch and Smith–Waterman algorithms for identifying viral polymorphic malware variants. In Proceedings – 2016 IEEE 14th International Conference on Dependable, Autonomic and Secure Computing, DASC 2016, 2016 IEEE 14th International Conference on Pervasive Intelligence and Computing, PICom 2016, 2016 IEEE 2nd International Conference on Big Data Intelligence and Computing, DataCom 2016 and 2016 IEEE Cyber Science and Technology Congress, CyberSciTech 2016, DASC–PICom–DataCom–CyberSciTech 2016 (pp. 326–333). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/DASC–PICom–DataCom–CyberSciTec.2016.73
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## ALAN LITCHFIELD

Publication Type	Citation
Conference contribution	Ahmed, M., Litchfield, A. T., & Sharma, C. (2016). A distributed security model for cloud computing. In <i>AMCIS 2016: Surfing the IT Innovation Wave – 22nd Americas Conference on Information Systems</i> . Sheraton San Diego: Association for Information Systems.
Conference contribution	Litchfield, A., & Farokhpourlangroodi, A. (2016). Facilitating organisational change via an automated change management system. In <i>AMCIS 2016: Surfing the IT Innovation Wave – 22nd Americas Conference on Information Systems</i> (pp. 10 pages). San Diego: Association for Information Systems.
Journal article	Litchfield, A., & Monjur Ahmed. (2016). Taxonomy for Identification of Security Issues in Cloud Computing Environments. <i>Journal of Computer Information Systems, 0(0)</i> , 1–10. doi:10.1080/08874417.2016.1192520

## ALASTAIR NISBET

Publication Type	Citation
Conference contribution	Nisbet, A., & Woodward, A. (2016). A comparison study of wireless network security in several Australasian cities & suburbs. In J. Liu, & R. Steinfeld (Eds.), <i>21st Australasian Conference on Information Security and Privacy (ACISP 2016) Vol. 9722</i> (pp. 115–127). Melbourne, Australia. doi:10.1007/978-3-319-40253-6_7

## ALETTA VAN DER MERWE

Publication Type	Citation
Conference contribution	Van Der Merwe, A. J. (2016). Error estimates for the Galerkin finite element approximation for a linear second order hyperbolic equation with modal damping. In <i>SANUM 2016</i> . Stellenbosch, South Africa.
Conference contribution	Van Der Merwe, A. J. (2016). Comparing linear vibration models. In <i>New Zealand Mathematical Society Colloquium</i> . Wellington, New Zealand.

## ALI GHAFARIAN HOSEINI

Publication Type	Citation
Journal article	GhaffarianHoseini, A., Tookey, J., GhaffarianHoseini, A., Naismith, N., & Rotimi, J. (2016). Integrating alternative technologies to improve built environment sustainability in Africa: Nexus of energy and water. <i>Smart and Sustainable Built Environment, 5(3)</i> , 193–211.
Journal article	GhaffarianHoseini, A., Tookey, J., GhaffarianHoseini, A., Yusoff, S. M., & Hassan, N. B. (2016). State of the art of rainwater harvesting systems towards promoting green built environments: a review. <i>Desalination and Water Treatment, 57(1)</i> , 95–104. doi:10.1080/19443994.2015.1021097
Journal article	Ghaffarianhoseini, A., Ghaffarianhoseini, A., Berardi, U., Tookey, J., Li, D. H. W., & Kariminia, S. (2016). Exploring the advantages and challenges of double-skin façades (DSFs). <i>Renewable and Sustainable Energy Reviews, 60</i> , 1052–1065. doi:10.1016/j.rser.2016.01.130

Chapter or section in books	GhaffarianHoseini, A., GhaffarianHoseini, A., Tookey, J., Omrany, H., Fleury, A., Naismith, N., & Ghaffarianhoseini, M. (2016). The Essence of Smart Homes: Application of Intelligent Technologies towards Smarter Urban Future. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 330–372). doi:10.4018/978-1-5225-0016-2.ch014
Journal article	Omrany, H., GhaffarianHoseini, A., GhaffarianHoseini, A., Raahemifar, K., & Tookey, J. (2016). Application of passive wall systems for improving the energy efficiency in buildings: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 62, 1252–1269. doi:10.1016/j.rser.2016.04.010
Journal article	Ghaffarianhoseini, A., Berardi, U., AlWaer, H., Chang, S., Halawa, E., Ghaffarianhoseini, A., & Clements–Croome, D. (2016). What is an intelligent building? Analysis of recent interpretations from an international perspective. <i>Architectural Science Review</i> , 59(5), 338–357. doi:10.1080/00038628.2015.1079164
Journal article	Aflaki, A., Mirnezhad, M., Ghaffarianhoseini, A., Ghaffarianhoseini, A., Omrany, H., Wang, Z. -H., & Akbari, H. (2016). Urban heat island mitigation strategies: A state-of-the-art review on Kuala Lumpur, Singapore and Hong Kong. <i>Cities</i> . doi:10.1016/j.cities.2016.09.003

### ALI GHOBAKHLOU

Publication Type	Citation
Conference contribution	Ghobakhlou, A., Wang, X., Sallis, P., Inder, S., & Blok, S. (2016). Using WSN for possum management. In <i>Proceedings of the International Conference on Sensing Technology, ICST Vol. 2016–March</i> (pp. 689–693). IEEE Computer Society. doi:10.1109/ICSensT.2015.7438485
Conference contribution	Ghobakhlou, A., Amir, F., & Sallis, P. (2016). Leaf wetness sensors – A comparative analysis. In <i>Proceedings of the International Conference on Sensing Technology, ICST Vol. 2016–March</i> (pp. 420–424). Auckland, New Zealand. doi:10.1109/ICSensT.2015.7438434

### ALIAKBAR SAYADI

Publication Type	Citation
Journal article	Sayadi, A. A., Tapia, J. V., Neitzert, T. R., & Clifton, G. C. (2016). Effects of expanded polystyrene (EPS) particles on fire resistance, thermal conductivity and compressive strength of foamed concrete. <i>Construction and Building Materials</i> , 112, 716–724. doi:10.1016/j.conbuildmat.2016.02.218
Journal article	Sayadi, A. A., Juan Vilches, T., Neitzert, T. R., & Charles Clifton, G. (2016). Strength of bearing area and locking area of galvanized strips in foamed concrete. <i>Construction and Building Materials</i> , 114, 56–65. doi:10.1016/j.conbuildmat.2016.03.146
Journal article	Sayadi, A. A., Juan Vilches, T., Neitzert, T. R., & Charles Clifton, G. (2016). Effectiveness of foamed concrete density and locking patterns on bond strength of galvanized strip. <i>Construction and Building Materials</i> , 115, 221–229. doi:10.1016/j.conbuildmat.2016.04.047

### ALLA SHYMANSKA

Publication Type	Citation
Journal article	Shymanska, A. (2016). Spatial resolution of infrared imaging systems. <i>International Journal of Applied Physics and Mathematics</i> , 6(4), 207–217. doi:10.17706/ijapm.2016.6.4.207-217
Conference contribution	Shymanska, A. (2016). Spatial Resolution of Infrared Imaging Systems. In <i>International Conference on Engineering Mathematics and Physics</i> (pp. 27–28). Dubai. Retrieved from <a href="http://www.icemp.org/">http://www.icemp.org/</a>
Conference contribution	Shymanska, A. (2016). Mathematical and computational modelling of modulation – transfer function in electron–optical systems.. In <i>AUT Mathematical Sciences Symposium</i> (pp. 18). Auckland.

## AMBREEN MEMON

Publication Type	Citation
Conference contribution	Memon, A., Liu, W., & Al-Anbuky, A. (2016). CatchMe If You Can: Enable Sustainable Communications Using Internet of Movable Things. In 2016 IEEE 14th Intl Conf on Dependable, Autonomic and Secure Computing, 14th Intl Conf on Pervasive Intelligence and Computing, 2nd Intl Conf on Big Data Intelligence and Computing and Cyber Science and Technology Congress(DASC/PiCom/DataCom/CyberSciTech) (pp. 947-952). doi:10.1109/DASC-PiCom-DataCom-CyberSciTec.2016.163

## AMINU USMAN

Publication Type	Citation
Conference contribution	Usman, A., Liu, W., Bai, Q., & Narayanan, A. (2016). Exploring the Role of Structural Similarity in Securing Smart Metering Infrastructure. In 2015 IEEE IEEE International Conference on Data Science and Data Intensive Systems (pp. 343-349). Sydney, Australia: IEEE DSDIS Proceedings. doi:10.1109/DSDIS.2015.95

## ANDREW ENSOR

Publication Type	Citation
Journal article	Ensor, A., & Lillo Viedma, F. (2016). Coloured-edge graph approach for the modelling of multimodal transportation systems. <i>Asia-Pacific Journal of Operational Research</i> , 33(1), 21 pages. doi:10.1142/S0217595916500056

## ANDREW LOWE

Publication Type	Citation
Journal article	Anand, G., Lowe, A., & Al-Jumaily, A. M. (2016). Parametric Electrical Modelling of Human Forearm Simulation Response Using Multi-Frequency Electrical Bioimpedance. <i>Journal of Biosensors &amp; Bioelectronics</i> , 7. doi:10.4172/2155-6210.1000206
Journal article	Anand, G., Lowe, A., & Al-Jumaily, A. M. (2016). Simulation of impedance measurements at human forearm within 1 kHz to 2 MHz. <i>Journal of Electrical Bioimpedance</i> , 7, 20. doi:10.5617/jeb.2657
Journal article	Kalra, A., Lowe, A., & Al-Jumaily, A. (2016). Quantifying Skin Stretch induced Motion Artifact from an Electrocardiogram signal-A Pilot Study. <i>Journal of Biosensors &amp; Bioelectronics</i> , 7(2). doi:10.4172/2155-6210.1000204
Journal article	Sluyter, J. D., Hughes, A. D., Lowe, A., Parker, K. H., Camargo, C. A., Hametner, B., . . . Scragg, R. K. R. (2016). Different associations between beta-blockers and other antihypertensive medication combinations with brachial blood pressure and aortic waveform parameters. <i>International Journal of Cardiology</i> , 219, 257-263. doi:10.1016/j.ijcard.2016.06.051
Conference contribution	Sethi, S., Lowe, A., & Kilding, A. E. (2016). Does self-regulated combined high-intensity and sprint interval training confer vasculoprotection?. In <i>Changing NZ Perspectives on Active Health and Human Performance</i> (pp. 58). Cambridge.
Conference contribution	Sethi, S., Kilding, A. E., Lowe, A., & Hastings, B. (2016). The vasculoprotective effects of community-based, self-regulated aerobic interval training. In <i>New Zealand Medical Sciences Congress</i> . Nelson.
Journal article	Kalra, A., Lowe, A., & Al-Jumaily, A. (2016). Mechanical behaviour of skin: A review. <i>Journal of Material Science &amp; Engineering</i> , 5(4). doi:10.4172/2169-0022.1000254
Conference contribution	Dahiya, E., Krishnamurthi, R., Lowe, A., & Feigin, V. (2016). Measuring pulse wave velocity: Developing a new approach. In <i>New Zealand Applied Neurosciences Conference Vol. Neuroepidemiology</i> , 47 (pp. 141). Auckland, New Zealand. doi:10.1159/000453097

Journal article	Sluyter, J. D., Hughes, A. D., Lowe, A., Camargo, C. A., & Scragg, R. K. (2016). Statin utilisation in a real-world setting: a retrospective analysis in relation to arterial and cardiovascular autonomic function.. <i>Pharmacology Research and Perspectives</i> , 4(6), e00276. doi:10.1002/prp2.276
Journal article	Sluyter, J. D., Hughes, A. D., Thom, S. A. M., Lowe, A., Camargo Jr, C. A., Hametner, B., . . . Scragg, R. K. R. (2016). Arterial waveform parameters in a large, population-based sample of adults: relationships with ethnicity and lifestyle factors. <i>Journal of Human Hypertension</i> . doi:10.1038/jhh.2016.78

## ANNE STAAL

Publication Type	Citation
Conference contribution	Staal, A. A. G., Hagelaar, G., Walhof, G., & Holman, R. (2016). Developing Risk-Based Procurement Management Tools for SMEs. In P. Davidson (Ed.), <i>Australian Centre for Entrepreneurship (ACE) Research Echange Conference 2016 Vol. will include proceedings asap; currently only the programme</i> (pp. 15 pages). Gold Coast Campus: ACERE. Retrieved from <a href="http://acereconference.com/">http://acereconference.com/</a>
Conference contribution	Hagelaar, G., Staal, A., Walhof, G., & Holman, R. (2016). Extend business activities through aligning suppliers' resources – results from a Dutch multiple case study in SMEs.. In M. Henke, & M. Ten Hompel (Eds.), <i>IPSERA 2016 Conference Proceedings Vol. From efficiency to effectiveness in an integrated Supply Chain Management</i> (pp. 15 pages). Dortmund: International Purchasing and Supply Education and Research Association. Retrieved from <a href="http://www.ipsera2016.lfo.tu-dortmund.de/welcome-to-ipsera-2016/">http://www.ipsera2016.lfo.tu-dortmund.de/welcome-to-ipsera-2016/</a>

## ANTHONY CLEAR

Publication Type	Citation
Conference contribution	Spooner, K., & Clear, T. (2016). A Foundation Programme Preparing Students for Future Study in Computing and Engineering Degrees. In <i>Proceedings 2016 Learning and Teaching in Computing and Engineering (LaTICE 2016)</i> (pp. 66–70). Mumbai, India: IEEE.
Journal article	Clear, A. G. (2016). Computer science education---: challenging thinking in the small?. <i>ACM Inroads</i> , 7(2), 31–33. doi:10.1145/2927016
Report	Clear, T., Grundy, J., Pagnucco, M., Padgham, L., Moffat, A., Dobbie, G., & Abramson, D. (2016). ERA 2018 Impact and Assessment Discussion Paper Feedback Response from Computing Research and Education Australasia (CoRE) and Australian Council of Deans of ICT (ACDICT). CoRE & ACDICT. Retrieved from <a href="http://www.core.edu.au/submissions-and-endorsements">http://www.core.edu.au/submissions-and-endorsements</a>
Book	Clear, T., Gajevic, S., & Kassabova, D. (2016). <i>Research Review 2015</i> (Vol. 3). Auckland: Auckland University of Technology – Print Sprint. Retrieved from <a href="http://www.aut.ac.nz/">http://www.aut.ac.nz/</a>
Conference contribution	McDermott, R., Zarb, M., Daniels, M., Cajander, Å., & Clear, T. (2016). Motivation, Optimal Experience and Flow in First Year Computing Science. In J. Carter, & I. Tupac (Eds.), <i>Proceedings of the 2016 ACM Conference on Innovation and Technology in Computer Science Education</i> (pp. 206–211). Arequipa, Peru: ACM. doi:10.1145/2899415.2899474
Journal article	Clear, T. (2016). THINKING ISSUES: Evaluating research impact in computing. <i>ACM Inroads</i> , 7(4), 28–32. doi:10.1145/2996860
Conference contribution	Hussain, W., Zowghi, D., Clear, T., MacDonell, S. G., & Blincoe, K. (2016). Managing Requirements Change the Informal Way! When Saying 'No' Is Not an Option. In <i>Proceedings of the 2016 IEEE 24th International Requirements Engineering Conference (RE'16)</i> (pp. 126–135). IEEE. doi:10.1109/RE.2016.64
Conference contribution	Clear, T., Beecham, S., Barr, J., Daniels, M., Oudshoorn, M., & Noll, J. (2016). Developments in Global Software Engineering Education. In D. Trytten, H. Matusovich, & M. Castro (Eds.), <i>46th ASEE/IEEE Frontiers in Education Conference Proceedings</i> . Erie, Pennsylvania. doi:10.1109/FIE.2016.7757471

Conference contribution	Clear, T., Parsjö, E., Cajander, Å., Daniels, M., Lagerqvist, N., & McDermott, R. (2016). A Framework for Writing Learning Agreements. In D. Trytten, H. Matusovich, & M. Castro (Eds.), 46th ASEE/IEEE Frontiers in Education Conference Proceedings. Erie, PA. doi:10.1109/FIE.2016.7757718
Conference contribution	Jónsson, B., Lárusdóttir, M., Daniels, M., Clear, A., Clear, T., & McDermott, R. (2016). Aligning Quality Assurance at the Course Unit and Educational Program Levels. In D. Trytten, H. Matusovich, & M. Castro (Eds.), 46th ASEE/IEEE Frontiers in Education Conference Proceedings. Erie, PA: IEEE. doi:10.1109/FIE.2016.7757419
Conference contribution	Lind, T., Cajander, Å., Sandblad, B., Daniels, M., Lárusdóttir, M., McDermott, R., & Clear, T. (2016). Students Envisioning the Future. In D. Trytten, H. Matusovich, & M. Castro (Eds.), 46th ASEE/IEEE Frontiers in Education Conference Proceedings. Erie, Pennsylvania. doi:10.1109/FIE.2016.7757701

## ANTHONY NORRIS

Publication Type	Citation
Conference contribution	Parry, D., Madanian, S., & Norris, T. (2016). Disaster EHealth-Sustainability in the Extreme. In Proceedings - 2016 IEEE 14th International Conference on Dependable, Autonomic and Secure Computing, DASC 2016, 2016 IEEE 14th International Conference on Pervasive Intelligence and Computing, PICom 2016, 2016 IEEE 2nd International Conference on Big Data Intelligence and Computing, DataCom 2016 and 2016 IEEE Cyber Science and Technology Congress, CyberSciTech 2016, DASC-PICom-DataCom-CyberSciTech 2016 (pp. 943-946). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.162

## ANUBHA KALRA

Publication Type	Citation
Journal article	Kalra, A., Lowe, A., & Al-Jumaily, A. (2016). Mechanical behaviour of skin: A review. <i>Journal of Material Science &amp; Engineering</i> , 5(4). doi:10.4172/2169-0022.1000254

## BARRY BLUNDELL

Publication Type	Citation
Book	Blundell, B. G. (2016). <i>3D Displays and Spatial Interaction. Volume III: From Technology Evaluation to Application</i> (Vol. III).

## BEHROOZ LOTFI

Publication Type	Citation
Journal article	Lotfi, B., & Huang, L. (2016). An approach for velocity and position estimation through acceleration measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , 90, 242-249. doi:10.1016/j.measurement.2016.04.011

## BOON-CHONG SEET

Publication Type	Citation
Journal article	Lin, X., Seet, B. -C., & Joseph, F. (2016). Fine-pitch surface component mounting on screen-printed fabric circuits. <i>Electronics Letters</i> , 52(12), 1032-1034. doi:10.1049/el.2016.1044
Conference contribution	Seet, B. -C., Zhang, J., & Liu, Y. (2016). In-home assisted living for elderly dementia care. In <i>SAI Intelligent Systems Conference</i> (pp. 1095-1100). USA: IEEE.
Conference contribution	Yang, H., Seet, B. -C., Hasan, S. F., Chong, P. H. J., & Chung, M. Y. (2016). Radio resource allocation for D2D-enabled massive machine communication in the 5G era. In <i>IEEE Cyber Science and Technology Congress (CyberSciTech)</i> (pp. 6 pages). USA: IEEE. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.24

Conference contribution	Murkaz, A., Hussain, R., Hasan, S. F., Chung, M. Y., Seet, B. -C., Chong, P. H. J., . . . Malik, S. A. (2016). Architecture and protocols for inter-cell device-to-device communication in 5G networks. In 14th IEEE International Conference on Pervasive, Intelligence and Computing (pp. 4 pages). Auckland, New Zealand: IEEE. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.95
Conference contribution	Zhou, L., Zhang, J., Seet, B. -C., Zuo, L., Hu, X., Li, J., . . . Wei, J. (2016). Software defined small cell networking under dynamic traffic patterns. In IEEE Cyber Science and Technology Congress (CyberSciTech) (pp. 10-17). Auckland, New Zealand: IEEE. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.18
Journal article	Zhang, J., Seet, B. -C., & Lie, T. T. (2016). Event-based Resource Management Framework for Distributed Decision-Making in Decentralized Virtual Power Plant. <i>Energies</i> , 9(8), 19 pages. doi:10.3390/en9080595
Conference contribution	Ahmad, T., Li, X. J., & Seet, B. -C. (2016). 3D localization based on parametric loop division and subdivision surfaces for wireless sensor networks. In 25th Wireless and Optical Communication Conference (WOCC) 2016 (pp. 1-6). IEEE: IEEE. doi:10.1109/WOCC.2016.7506540
Conference contribution	Nkom, B., Taylor, A., Baguley, C., Seet, B. -C., & Lie, T. T. (2016). A unified approach to characterizing medium to low voltage powerline communication channels. In IEEE International Conference on Power Systems Technology (POWERCON) (pp. 7 pages). Wollongong, Australia: IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/abstract/document/7753995/">http://ieeexplore.ieee.org/abstract/document/7753995/</a>
Journal article	Lin, X., & Seet, B. -C. (2016). Battery-free smart sock for abnormal relative plantar pressure monitoring. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 11(2), 464-473. doi:10.1109/TBCAS.2016.2615603
Chapter or section in books	Lin, X., Seet, B. -C., & Joseph, F. (2016). Wireless sensing systems for body area networks. In S. C. Mukhopadhyay (Ed.), <i>Sensors for everyday life: Biomedical applications</i> (Vol. 22, pp. 221-239). Springer. doi:10.1007/978-3-319-47319-2_11
Conference contribution	Parthiban, P., Seet, B. -C., & Li, X. (2016). Low-cost scalable UHF RFID reader antenna with no surface dead zones. In <i>IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE)</i> (pp. 24-29). Langkawi, Malaysia: IEEE.
Conference contribution	Ahmad, T., Li, X. J., & Seet, B. -C. (2016). A self-calibrated centroid localization algorithm for indoor ZigBee WSNs. In 8th IEEE International Conference on Communication Software and Networks (ICCSN), 2016 (pp. 455-461). IEEE: IEEE. doi:10.1109/ICCSN.2016.7587200

## BORIS BACIC

Publication Type	Citation
Conference contribution	Bacic, B. (2016). Echo state network for 3D motion pattern indexing: A case study on tennis forehands. In Bräunl, Th., McCane, B., Rivera, M., & Yu, X. (Eds.), <i>Image and Video Technology: 7th Pacific-Rim Symposium, PSIVT 2015</i> , Auckland, New Zealand, November 25-27, 2015, Revised Selected Papers Vol. 9431 (pp. 295-306). Auckland, New Zealand: Springer International Publishing. doi:10.1007/978-3-319-29451-3_24
Journal article	Bačić, B. (2016). Predicting golf ball trajectories from swing plane: An artificial neural networks approach. <i>Expert Systems with Applications</i> , 65, 423-438. doi:10.1016/j.eswa.2016.07.014
Conference contribution	Bačić, B. (2016). Echo state network ensemble for human motion data temporal phasing: A case study on tennis forehands. In A. Hirose, S. Ozawa, K. Doya, K. Ikeda, & D. Liu (Eds.), <i>Neural Information Processing. ICONIP 2016. Lecture Notes in Computer Science</i> Vol. 9950 LNCS (pp. 11-18). Springer Verlag. doi:10.1007/978-3-319-46681-1_2
Conference contribution	Islam, S., Pears, R., & Bacic, B. (2016). Identification of precursor patterns for prediction of frequency fluctuations in electrical power generation data. In 2016 JOINT NZSA+ORSNZ CONFERENCE (pp. 30). Auckland, New Zealand: ORSNZ. Retrieved from <a href="http://orsnz.org.nz/">http://orsnz.org.nz/</a>

Conference contribution	Bacic, B., & Ghazala, A. (2016). Left-handed representation in top 100 male professional tennis players: Multi-disciplinary perspectives. In P. Nand, & R. Perera (Eds.), First New Zealand Text Mining Workshop (TMNZ 2016) in conjunction with the 8th Asian Conference on Machine Learning (ACML 2016). Hamilton, New Zealand. Retrieved from <a href="http://tmg.aut.ac.nz/tmnz2016/">http://tmg.aut.ac.nz/tmnz2016/</a>
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## BRIAN CUSACK

Publication Type	Citation
Conference contribution	Kyaw, A. K., Agrawal, P., & Cusack, B. (2016). Wi-Pi: A study of WLAN security in Auckland CBD. In Proceedings of the Australasian Computer Science Week Multiconference Vol. 01-05-February-2016. Association for Computing Machinery. doi:10.1145/2843043.2843363
Journal article	Cusack, B., & Ghazizadeh, E. (2016). Evaluating single sign-on security failure in cloud services. <i>Business Horizons</i> , 59(6), 605-614. doi:10.1016/j.bushor.2016.08.002
Journal article	Parent, M., & Cusack, B. (2016). Cybersecurity in 2016: People, technology, and processes. <i>Business Horizons</i> , 59(6), 567-569. doi:10.1016/j.bushor.2016.08.005
Conference contribution	Cusack, B., & Ghazizadeh, E. (2016). Analysing trust issues in cloud identity environments. In <i>The 27th Australasian Conference on Information Systems</i> . Wollongong: University of Wollongong. Retrieved from <a href="http://ro.uow.edu.au/acis2016/papers/1/43/">http://ro.uow.edu.au/acis2016/papers/1/43/</a>
Conference contribution	Cusack, B., & Lutui, R. (2016). Google Earth forensics on IOS 10'S location service. In <i>14th Australian Information Security Management Conference</i> . Perth, Australia.
Conference contribution	Cusack, B., & Chapman, E. (2016). Using graphic methods to challenge cryptographic performance. In <i>14th Australian Information Security Management Conference</i> . Perth, Australia.
Conference contribution	Cusack, B., & Khaleghparast, R. (2016). A privacy gap around the Internet of things for open source projects. In <i>14th Australian Information Security Management Conference</i> . Perth, Australia.
Conference contribution	Cusack, B., & Maeakafa, G. (2016). Establishing economical traffic surveillance in Tonga. In <i>14th Australian Digital Forensics Conference</i> . Perth, Australia.
Conference contribution	Cusack, B., & Tian, Z. (2016). Detecting and tracing slow attacks on mobile phone user service. In <i>14th Australian Digital Forensics Conference</i> . Perth, Australia.
Conference contribution	Cusack, B. (2016). Improving forensics software tool performance in detecting fraud for financial statements. In <i>14th Australian Digital Forensics Conference</i> . Perth, Australia.
Conference contribution	Cusack, B., Tian, Z., & Kyaw, A. (2016). Identifying DOS and DDOS attack origin: IP traceback methods comparison and evaluation for IoT. In <i>The 3rd EAI International Conference on Safety and Security in Internet of Things</i> . Paris, France.
Chapter or section in books	Cusack, B. (2016). Socialising and Finalising Scientific Research. In <i>Research Review 2015</i> (pp. 38-39). Auckland: PrintSprint.

## CAPECCI ELISA

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1-14. doi:10.1016/j.neunet.2015.09.011
Conference contribution	Capecci, E., Gholami Dobarjeh, Z., Mammone, N., Foresta, F., Morabito, F., & Kasabov, N. (2016). Longitudinal Study of Alzheimer's Disease Degeneration through EEG Data Analysis with aNeuCube Spiking Neural Network Model. In Z. -H. Zhou (Ed.), <i>IEEE WCCI 2016</i> (pp. 1360-1366). IJCNN conference 2016 in Vancouver, Canda: IEEE.

## CHAMARI KITHULGODA

Publication Type	Citation
Conference contribution	Kithulgoda, C., & Pears, R. (2016). Staged Online Learning: A new approach to classification in high speed data streams. In <i>Proceedings of 2016 International Joint Conference on Neural Networks (IJCNN)</i> . IEEE Xplore. doi:10.1109/IJCNN.2016.7727173

## CHANDAN SHARMA

Publication Type	Citation
Conference contribution	Ahmed, M., Litchfield, A. T., & Sharma, C. (2016). A distributed security model for cloud computing. In <i>AMCIS 2016: Surfing the IT Innovation Wave - 22nd Americas Conference on Information Systems</i> . Sheraton San Diego: Association for Information Systems.

## CHARLES KILBY

Publication Type	Citation
Journal article	Kilby, Prasad, K., & Mawston, G. (2016). Multi-channel Surface Electromyography Electrodes: A Review. <i>IEEE Sensors Journal</i> , 16(14), 5510–5519. doi:10.1109/JSEN.2016.2569072
Conference contribution	Kilby, J., Prasad, K., & Mawston, G. (2016). Design of New Multi-channel Electrodes for Surface Electromyography Signals for Signal-Processing. In 2016 38th Annual International Conference Of The IEEE Engineering In Medicine And Biology Society (EMBC) (pp. 4853–4856). Lake Buena Vista, USA: IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/">http://ieeexplore.ieee.org/</a>

## CHENG YANG

Publication Type	Citation
Conference contribution	Yang, C., & Collins, J. (2016). A model for honey bee tracking on 2D video. In <i>International Conference Image and Vision Computing New Zealand</i> Vol. 2016–November. IEEE Computer Society. doi:10.1109/IVCNZ.2015.7761542

## CHRISTOPHER WHITTINGTON

Publication Type	Citation
Conference contribution	Anderson, T., Whittington, C., & Li, X. (2016). Classes to passes: Is class attendance a determinant of grades in undergraduate engineering subjects?. In S. T. Smith (Ed.), <i>27th Australasian Association for Engineering Education Conference</i> . Coff's Harbour: Southern Cross University.

## CRAIG BAGULEY

Publication Type	Citation
Conference contribution	Zhao, L., Thrimawithana, D. J., Madawala, U. K., & Baguley, C. A. (2016). Performance optimization of LC bi-directional inductive power transfer system. In 2015 IEEE 13th Brazilian Power Electronics Conference and 1st Southern Power Electronics Conference, COBEP/SPEC 2016. Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/COBEP.2015.7420297
Journal article	McLaren, R., Joseph, F., Baguley, C., & Taylor, D. (2016). A review of e-textiles in neurological rehabilitation: How close are we?. <i>Journal of NeuroEngineering and Rehabilitation</i> , 13(1), 59. doi:10.1186/s12984-016-0167-0

Conference contribution	Nkom, B., Taylor, A., Baguley, C., Seet, B. -C., & Lie, T. T. (2016). A unified approach to characterizing medium to low voltage powerline communication channels. In IEEE International Conference on Power Systems Technology (POWERCON) (pp. 7 pages). Wollongong, Australia: IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/abstract/document/7753995/">http://ieeexplore.ieee.org/abstract/document/7753995/</a>
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## DAVID MOORE

Publication Type	Citation
Journal article	Stedmon, A., Moore, D., Nixon, J., & Harris, D. (2016). Transport in the 21st Century: The application of human factors to future user needs. <i>Applied Ergonomics</i> , 53, 295–297. doi:10.1016/j.apergo.2015.11.008

## DAVID PARRY

Publication Type	Citation
Conference contribution	Parry, D., Rush, E., Pais, S., & Rowan, J. (2016). Data integration for mobile wellness apps to support treatment of GDM. In J. Maugher, & J. Warren (Eds.), Proceedings of the Australasian Computer Science Week Multiconference (ACSW '16). Australia: ACM. doi:10.1145/2843043.2843382
Journal article	Feather, J. S., Howson, M., Ritchie, L., Carter, P. D., Parry, D. T., & Koziol-McLain, J. (2016). Evaluation methods for assessing users' psychological experiences of web-based psychosocial interventions: A systematic review. <i>Journal of Medical Internet Research</i> , 18(6), e181. doi:10.2196/jmir.5455
Conference contribution	Petrova, K., MacDonell, S. G., & Parry, D. (2016). Mobile data service adoption and use from a service supply perspective – An Empirical Investigation. In C. Callegari, M. van Sinderen, P. Sarigiannidis, P. Samarati, E. Cabello, & P. Lorenz (Eds.), Proceedings of the 13th International Joint Conference on e-Business and Telecommunications Vol. Volume 2: ICE-B (pp. 86–97). Lisbon, Portugal: SCITEPRESS – Science and Technology Publications, Lda. doi:10.5220/0005966100860097
Conference contribution	Yang, M. L., Narayanan, A., Parry, D., & Wang, X. (2016). A lightweight authentication scheme for transport system farecards. In 2016 IEEE International Conference on RFID Technology and Applications, RFID-TA 2016 (pp. 150–155). Marriott Hotel: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/RFID-TA.2016.7750746
Conference contribution	Parry, D., Madanian, S., & Norris, T. (2016). Disaster EHealth-Sustainability in the Extreme. In Proceedings – 2016 IEEE 14th International Conference on Dependable, Autonomic and Secure Computing, DASC 2016, 2016 IEEE 14th International Conference on Pervasive Intelligence and Computing, PICom 2016, 2016 IEEE 2nd International Conference on Big Data Intelligence and Computing, DataCom 2016 and 2016 IEEE Cyber Science and Technology Congress, CyberSciTech 2016, DASC-PICom-DataCom-CyberSciTech 2016 (pp. 943–946). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.162

## DAVID WHITE

Publication Type	Citation
Journal article	Amoedo, S., Thebaud, E., Gschwendtner, M., & White, D. (2016). Novel parameter-based flexure bearing design method. <i>Cryogenics</i> , 76, 1–9. doi:10.1016/j.cryogenics.2016.03.002
Journal article	White, D. E., Bartley, J., Shakeel, M., Nates, R. J., & Hankin, R. K. S. (2016). Nasal airway responses to nasal continuous positive airway pressure breathing: An in-vivo pilot study. <i>Journal of Biomechanics</i> , 49(9), 1887–1890. doi:10.1016/j.jbiomech.2016.04.034
Journal article	Blane, G., Gibb, N. E., Lim, S. G. -S., Gillard, W. R., White, D. E., Docherty, P. D., . . . Hyndman, J. (2016). Preventing lung damage via automation and optimisation of mechanical ventilation for critically ill patients in the third world. <i>New Zealand Medical Journal</i> , 129(1439), 89–90.
Report	"White, D. E., & Garcia, L. (2016). <i>Analysis into the cause of surgical mallet damage Client: SheffMed N.Z. LTD.: Analysis into the Cause of Surgical Mallet Damage</i> (BDL16-01). Auckland University of Technology: Auckland University of Technology."

**DAVID WILSON**

Publication Type	Citation
Conference contribution	Boiarkina, I., Depree, N., Yu, W., Young, B., & Wilson, D. (2016). Just-in-Time Functionals Using Proxy Measurements: A step towards real-time quality. In <i>IDF Concentration and Dried Milk Products Symposium Programme</i> . Dublin: <a href="http://www.idfingredientsandcheese2016.com/IDF%20Parallel%20Symposia%20Concentration%20and%20Dried%20Milk%20Products-Programme.pdf">http://www.idfingredientsandcheese2016.com/IDF%20Parallel%20Symposia%20Concentration%20and%20Dried%20Milk%20Products-Programme.pdf</a> .
Conference contribution	Depree, N., Prince-Pike, A., Young, B., & Wilson, D. (2016). Real Time Quality control of IWMP functional performance across three large-scale plants. In <i>International Dairy Federation Concentration and Dried Milk Products Symposium Programme</i> . Dublin.
Journal article	Munir, T., Zhang, Y., Yu, W., Wilson, D., & Young, B. R. (2016). Virtual milk for modelling and simulation of dairy processes. <i>Journal of Dairy Science</i> , 99, 1-16. doi:10.3168/jds.2015-10449
Oral presentation	Wilson, D. (2016). <i>Why Model? The rationale behind a systematic approach for modelling the Central Signal Processor</i> . AUT University, Auckland.
Conference contribution	Munir, T. M., Wilson, D., & Young, B. R. (2016). Discrimination of milk powder using hyperspectral data and a multivariable strategy. In <i>Chemical Engineering - Regeneration, recovery and reinvention</i> . Adelaide Australia.
Conference contribution	Boiarkina, I., Ye, J., Prince-Pike, A., Yu, W., Young, B. R., & Wilson, D. (2016). The morphology of instant whole milk powder from different industrial plants. In <i>Chemical Engineering - Regeneration, Recovery and Reinvention</i> (pp. 945-953). Adelaide, Australia: Engineers Australia. Retrieved from <a href="https://www5.shocklogic.com/">https://www5.shocklogic.com/</a>
Journal article	Boiarkina, I., Sang, C., Depree, N., Prince-Pike, A., Yu, W., Young, B., & Wilson, D. (2016). The significance of powder breakdown during conveying within industrial milk powder plants. <i>Advanced Powder Technology</i> , 27(6), 2363-2369. doi:10.1016/j.appt.2016.10.019
Journal article	Boiarkina, I., Depree, N., Yu, W., Wilson, D., & Young, B. (2016). Rapid Particle Size Measurements Used as a Proxy to Control Instant Whole Milk Powder Dispersibility. <i>Dairy Science &amp; Technology</i> , 10 pages. doi:10.1007/s13594-016-0302-5
Report	"Wilson, D., Bunton, J., & Radford, B. (2016). <i>SKA1 CSP Low Correlator and Beamformer Sub-element Signal Processing Matlab Model (EA-7a)</i> (SKA-TEL-CSP-0000061). Manchester, UK: SKA Office."

**DIANA KASSABOVA**

Publication Type	Citation
Book	Clear, T., Gajevic, S., & Kassabova, D. (2016). <i>Research Review 2015</i> (Vol. 3). Auckland: Auckland University of Technology - Print Sprint. Retrieved from <a href="http://www.aut.ac.nz/">http://www.aut.ac.nz/</a>

**DIANA KIRK**

Publication Type	Citation
Conference contribution	Kirk, D., & Macdonell, S. (2016). An ontological analysis of a proposed theory for software development. In <i>Software Technologies</i> Vol. 586 (pp. 155-171). Colmar, France: Springer Verlag. doi:10.1007/978-3-319-30142-6_9

**EDMUND LAI**

Publication Type	Citation
Conference contribution	Cao, G., Lai, E., & Alam, F. (2016). Gaussian process based model predictive control for linear time varying systems. In <i>Proceedings of IEEE 14th International Workshop on Advanced Motion Control</i> (pp. 251-256). Auckland, New Zealand: IEEE. doi:10.1109/AMC.2016.7496359

Conference contribution	Cao, G., Lai, E., & Alam, F. (2016). Gaussian process model predictive control of unmanned quadrotors. In <i>Second International Conference on Control, Automation and Robotics</i> (pp. 200–206). Hong Kong SAR, China. doi:10.1109/ICCAR.2016.7486726
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### EGHBAL GHAZIZADEH

Publication Type	Citation
Journal article	Cusack, B., & Ghazizadeh, E. (2016). Evaluating single sign-on security failure in cloud services. <i>Business Horizons</i> , 59(6), 605–614. doi:10.1016/j.bushor.2016.08.002

### ELEANOR WILLIAMS

Publication Type	Citation
Journal article	Williams, E., Barr, K., Korchagina, E., Tuzikov, A., Henry, S., & Bovin, N. (2016). Ultra-fast glyco-coating of non-biological surfaces. <i>International Journal of Molecular Sciences</i> , 17(1). doi:10.3390/ijms17010118
Journal article	Williams, E., Korchagina, E., Frame, T., Ryzhov, I., Bovin, N., & Henry, S. (2016). Glycomapping the fine specificity of monoclonal and polyclonal Lewis antibodies with type-specific Lewis kodecytes and function-spacer-lipid constructs printed on paper. <i>Transfusion</i> , 56(2), 325–333. doi:10.1111/trf.13384

### EMMANUEL NDASHIMYE

Publication Type	Citation
Conference contribution	Ndashimye, E., Sarkar, N. I., & Ray, S. K. (2016). A Novel Network Selection Mechanism for Vehicle-to-Infrastructure Communication. In the 14th IEEE International Conference on Pervasive Intelligence and Computing (PICom 2016) (pp. 483–488). Auckland: IEEE Computer Society. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.94

### ENRICO HAEMMERLE

Publication Type	Citation
Journal article	Solevåg, A. L., Haemmerle, E., van Os, S., Bach, K. P., Cheung, P. Y., & Schmölder, G. M. (2016). A Novel Prototype Neonatal Resuscitator That Controls Tidal Volume and Ventilation Rate: A Comparative Study of Mask Ventilation in a Newborn Manikin.. <i>Front Pediatr</i> , 4, 129. doi:10.3389/fped.2016.00129
Journal article	Devaraj, H., Aw, K. C., Haemmerle, E., & Sharma, R. (2016). Fluid-structure interaction of high aspect-ratio hair-like micro-structures through dimensional transformation using Lattice Boltzmann method. <i>International Journal of Applied Mechanics</i> , 8(8). doi:10.1142/S1758825116500952

### ERIKA IKEDA

Publication Type	Citation
Journal article	Ikeda, E., Krageloh, C., Water, T., & Hinckson, E. A. (2016). An exploratory study of self-reported quality of life in children with Autism Spectrum Disorder and intellectual disability. <i>Child Indicators Research</i> , 9(1), 133–154. doi:10.1007/s12187-015-9307-5
Journal article	Kilding, A. E., Dobson, B. P., & Ikeda, E. (2016). Effects of acutely intermittent hypoxic exposure on running economy and physical performance in basketball players. <i>Journal of Strength and Conditioning Research</i> , 30(7), 2033–2042. doi:10.1519/JSC.0000000000001301
Journal article	Oliver, M., McPhee, J., Carroll, P., Ikeda, E., Mavoa, S., Mackay, L., . . . Witten, K. (2016). Neighbourhoods for Active Kids: study protocol for a cross-sectional examination of neighbourhood features and children's physical activity, active travel, independent mobility and body size. <i>BMJ Open</i> , 6(8), e013377. doi:10.1136/bmjopen-2016-013377

Conference contribution	Ikeda, E., Oliver, M., Witten, K., & Hinckson, E. (2016). Development in measurement of children's perceptions on built environment and their school travel routes. In <i>Journal of Science and Medicine in Sport</i> Vol. 19 (pp. 137 pages). Melbourne, Australia: Elsevier.
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### FARHAAN MIRZA

Publication Type	Citation
Chapter or section in books	Mirza, F., Mirza, A., Chung, C., & Sundaram, D. (2016). Sustainable, holistic, adaptable, real-time, and precise (SHARP) approach towards developing health and wellness systems. In R. Doss, S. Piramuthu, & W. Zhou (Eds.), <i>Future Network Systems and Security</i> (Vol. 670, pp. 157-171). doi:10.1007/978-3-319-48021-3_11

### FARIDA KACHAPOVA

Publication Type	Citation
Journal article	Kachapova, F., & Kachapov, I. (2016). Convergence of renormalization group transformations of Gibbs random field. <i>Journal of Mathematics and Statistics</i> , 12(3), 135-151. doi:10.3844/jmssp.2016.135.151
Journal article	Kachapova, F. (2016). Comparison of mathematical models of fibrosis. Comment on "Towards a unified approach in the modeling of fibrosis: A review with research perspectives" by Martine Ben Amar and Carlo Bianca. <i>Physics of Life Reviews</i> . doi:10.1016/j.plrev.2016.05.007
Journal article	Kachapova, F. (2016). A multi-sorted version of second order arithmetic. <i>The Australasian Journal of Logic</i> , 13(5), 123-135. Retrieved from <a href="https://ojs.victoria.ac.nz/ajl/article/view/3936">https://ojs.victoria.ac.nz/ajl/article/view/3936</a>

### FEI YING

Publication Type	Citation
Journal article	Ying, F., Wilkinson, S., & Coner, J. (2016). Challenges to seismic rehabilitation decision process in New Zealand: A focus of decision environment. <i>International Journal of Strategic Property Management</i> , 20(3), 305-315. doi:10.3846/1648715X.2016.1190419

### GAUTAM ANAND

Publication Type	Citation
Journal article	Anand, G., Lowe, A., & Al-Jumaily, A. M. (2016). Parametric Electrical Modelling of Human Forearm Simulation Response Using Multi-Frequency Electrical Bioimpedance. <i>Journal of Biosensors &amp; Bioelectronics</i> , 7. doi:10.4172/2155-6210.1000206
Journal article	Anand, G., Lowe, A., & Al-Jumaily, A. M. (2016). Simulation of impedance measurements at human forearm within 1 kHz to 2 MHz. <i>Journal of Electrical Bioimpedance</i> , 7, 20. doi:10.5617/jeb.2657

### GILBERT FOO

Publication Type	Citation
Journal article	"Zhang, X., & Foo, G. (2016). A Robust Field-Weakening Algorithm Based on Duty Ratio Regulation for Direct Torque Controlled Synchronous Reluctance Motor. <i>IEEE/ASME Transactions on Mechatronics</i> , 21(2), 765-773. doi:10.1109/TMECH.2015.2469096"
Journal article	Foo, G. H. B., & Zhang, X. (2016). Robust Constant Switching Frequency-Based Field-Weakening Algorithm for Direct Torque Controlled Reluctance Synchronous Motors. <i>IEEE Transactions on Industrial Informatics</i> , 12(4), 1462-1473. doi:10.1109/TII.2016.2585646
Journal article	Zhang, X., & Foo, G. H. B. (2016). A Constant Switching Frequency-Based Direct Torque Control Method for Interior Permanent-Magnet Synchronous Motor Drives. <i>IEEE/ASME Transactions on Mechatronics</i> , 21(3), 1445-1456. doi:10.1109/TMECH.2015.2480782

Journal article	Foo, G. H. B., & Zhang, X. (2016). Constant Switching Frequency Based Direct Torque Control of Interior Permanent Magnet Synchronous Motors With Reduced Ripples and Fast Torque Dynamics. <i>IEEE Transactions on Power Electronics</i> , 31(9), 6485–6493. doi:10.1109/TPEL.2015.2503292
Journal article	Mohan, D., Zhang, X., & Foo, G. H. B. (2016). Three-Level Inverter-Fed Direct Torque Control of IPMSM With Constant Switching Frequency and Torque Ripple Reduction. <i>IEEE Transactions on Industrial Electronics</i> , 63(12), 7908–7918. doi:10.1109/TIE.2016.2547907
<b>GUY LITTLEFAIR</b>	
<b>Publication Type</b>	<b>Citation</b>
Conference contribution	Khorasani, A. M., Gibson, I., Goldberg, M., Movahedi, M. M., & Littlefair, G. (2016). Analysis of Thermal Stresses in Solidification of Spherical SLM Components. In <i>The International Conference On Design And Technology 2016 (Des Tech)</i> . Geelong, Australia: DesTech. Retrieved from <a href="http://destechconference.com/">http://destechconference.com/</a>
Conference contribution	Chandrasekaran, S., Badwal, P., Thirunavukkarasu, G., & Littlefair, G. (2016). Collaborative learning experience of students in distance education. In <i>International Symposium on Project Approaches in Engineering Education Vol. 6</i> (pp. 90–99). Guimaraes, Portugal: PAEE – Project Approaches in Engineering Education Association. Department of Production and Systems, School of Engineering of University of Minho, Guimarães, Portugal. Retrieved from <a href="http://dro.deakin.edu.au/view/DU:30083929">http://dro.deakin.edu.au/view/DU:30083929</a>
Chapter or section in books	Shunmugavel, M., Polishetty, A., Goldberg, M., Singh, R. P., & Littlefair, G. (2016). Tool wear and surface integrity analysis of machined heat treated selective laser melted Ti–6Al–4V. In <i>3D Printing: Breakthroughs in Research and Practice</i> (pp. 228–240). Hershey PA, USA 17033: IGI Global. doi:10.4018/978-1-5225-1677-4.ch012
Chapter or section in books	Das, S., & Littlefair, G. (2016). Current distribution and lorentz field modelling using cathode designs: A parametric approach. In <i>Light Metals 2012</i> (pp. 847–851). Springer. doi:10.1007/978-3-319-48179-1_146
Chapter or section in books	Yan, D. P., Hilditch, T., Kishawy, H. A., & Littlefair, G. (2016). Shear displacement and actual strain during chip segmentation when cutting aerospace alloy Ti–5553. In <i>Characterization of Minerals, Metals, and Materials 2016</i> (pp. 753–760). Springer. doi:10.1007/978-3-319-48210-1_95
Conference contribution	Dzitac, P., Mazid, A. M., Littlefair, G., & Polishetty, A. (2016). Object slippage prevention using different control strategies. In <i>ICINCO 2016 – Proceedings of the 13th International Conference on Informatics in Control, Automation and Robotics Vol. 1</i> (pp. 559–566). Lisbon, Portugal: Scitepress. Retrieved from <a href="http://www.scitepress.org/DigitalLibrary/Link.aspx?doi=10.5220/0006003505590566">http://www.scitepress.org/DigitalLibrary/Link.aspx?doi=10.5220/0006003505590566</a>
Conference contribution	Yan, D. P., Hilditch, T., Kishawy, H. A., & Littlefair, G. (2016). Shear displacement and actual strain during chip segmentation when cutting aerospace alloy Ti–5553. In <i>TMS Annual Meeting</i> (pp. 753–760). Nashville, USA.
Journal article	Khorasani, A. M., Gibson, I., Goldberg, M., Nomani, J., & Littlefair, G. (2016). Machinability of metallic and ceramic biomaterials: A review. <i>Science of Advanced Materials</i> , 8(8), 1491–1511. doi:10.1166/sam.2016.2783
Journal article	Khorasani, A. M., Gibson, I., Godarzvand Chegini, N., Goldberg, M., Ghasemi, A. H., & Littlefair, G. (2016). An improved static model for tool deflection in machining of Ti–6Al–4V acetabular shell produced by selective laser melting. <i>Measurement: Journal of the International Measurement Confederation</i> , 92, 534–544. doi:10.1016/j.measurement.2016.06.031
Journal article	Pramanik, A., & Littlefair, G. (2016). Wire EDM Mechanism of MMCs with the Variation of Reinforced Particle Size. <i>Materials and Manufacturing Processes</i> , 31(13), 1700–1708. doi:10.1080/10426914.2015.1117621

Journal article	Khorasani, A. M., Gibson, I., Goldberg, M., & Littlefair, G. (2016). A survey on mechanisms and critical parameters on solidification of selective laser melting during fabrication of Ti-6Al-4V prosthetic acetabular cup. <i>Materials and Design</i> , 103, 348-355. doi:10.1016/j.matdes.2016.04.074
Journal article	Nomani, J., Pramanik, A., Hilditch, T., & Littlefair, G. (2016). Investigation on the Behavior of Austenite and Ferrite Phases at Stagnation Region in the Turning of Duplex Stainless Steel Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 47(6), 3165-3177. doi:10.1007/s11661-016-3472-0
Journal article	Khorasani, A. M., Gibson, I., Goldberg, M., Doeven, E. H., & Littlefair, G. (2016). Investigation on the effect of cutting fluid pressure on surface quality measurement in high speed thread milling of brass alloy (C3600) and aluminium alloy (5083). <i>Measurement: Journal of the International Measurement Confederation</i> , 82, 55-63. doi:10.1016/j.measurement.2015.12.016

### HAMID GHOLAMHOSSEINI

Publication Type	Citation
Conference contribution	Afifi, S., GholamHosseini, H., & Sinha, R. (2016). Hardware Acceleration of SVM-Based Classifier for Melanoma Images. In F. Huang, & A. Sugimoto (Eds.), <i>Image and Video Technology – PSIVT 2015 Workshops. PSIVT 2015. Lecture Notes in Computer Science Vol. 9555</i> (pp. 235-245). Springer International Publishing. doi:10.1007/978-3-319-30285-0_19
Journal article	"Baig, M. M., Gholamhosseini, H., & Connolly, M. J. (2016). Falls risk assessment for hospitalised older adults: a combination of motion data and vital signs. <i>Ageing Clinical and Experimental Research, On line</i> . doi:10.1007/s40520-015-0510-5"
Journal article	Abbaspour, S., Fallah, A., Lindén, M., & Gholamhosseini, H. (2016). A novel approach for removing ECG interferences from surface EMG signals using a combined ANFIS and wavelet. <i>Journal of Electromyography and Kinesiology</i> , 26(2016), 52-59. doi:10.1016/j.jelekin.2015.11.003
Conference contribution	Gholamhosseini, H., Meintjes, A., Baig, M., & Linden, M. (2016). Smartphone-based continuous blood pressure measurement using pulse transit time. In <i>Studies in Health Technology and Informatics Vol. 224</i> (pp. 84-89). Europe: IOS. doi:10.3233/978-1-61499-653-8-84
Conference contribution	Afifi, S., Gholamhosseini, H., & Sinha, R. (2016). A low-cost FPGA-based SVM classifier for melanoma detection. In L. Y. Khuan (Ed.), <i>IEEE-EMBS Conference on Biomedical Engineering and Sciences</i> . Kuala Lumpur, Malaysia. doi:10.1109/IECBES.2016.7843526
Chapter or section in books	Baig, M., GholamHosseini, H., & Connolly, M. (2016). Tablet-based clinical decision support system for hospitalised older adults. In F. Florez-Revuelta, & A. Chaaoui (Eds.), <i>Active and Assisted Living: Technologies and Applications</i> (pp. 311-332). UK: IET Digital Library. doi:10.1049/PBHE006E_ch
Conference contribution	Sabouri, P., & Gholamhosseini, H. (2016). Lesion border detection using deep learning. In <i>IEEE Congress on Computational Intelligence (IEEE WCCI)</i> . Vancouver, Canada. doi:10.1109/CEC.2016.7743955
Journal article	Lin, J., Sun, Y., Luo, D., GholamHosseini, H., & Yang, H. (2016). An Embedded Platform for Odor Analysis of Chinese Herbal Medicines. <i>Advances in Biomedical Engineering Research</i> , 4(0), 12. doi:10.14355/aber.2016.04.002

### JACQUELINE WHALLEY

Publication Type	Citation
Conference contribution	Sallis, P., Whalley, J., Michael-Agwuoke, M., & Chile, L. (2016). Expanding the horizon of waste data mapping and collection. In <i>WMSymposia 2016</i> (pp. 103). Phoenix, Arizona, USA: wmsym.org. Retrieved from <a href="http://www.xcdsystem.com/wmsym/program2016/ProgramBook.cfm">http://www.xcdsystem.com/wmsym/program2016/ProgramBook.cfm</a>

Journal article	Whalley, J., Sallis, P., & Bassey, E. (2016). Approaches to Cleaning Gas Response Signals from Metal Oxide Sensors: Optimisation and Generalizability. <i>International Journal on Advances in Systems and Measurements</i> , 9(1&2), 12-23. Retrieved from <a href="http://www.iariajournals.org/systems_and_measurements/">http://www.iariajournals.org/systems_and_measurements/</a>
Chapter or section in books	Whalley, J., & Zandi, S. (2016). Particulate Matter Sampling Techniques and Data Modelling Methods. In P. Sallis (Ed.), <i>Air Quality - measurement and modeling</i> (pp. 29-54). InTech. doi:10.5772/65054

## JAIRO GUTIERREZ

Publication Type	Citation
Journal article	Jarrah, H., Sarkar, N. I., & Gutierrez, J. (2016). Comparison-Based System-Level Fault Diagnosis Protocols for Mobile Ad-Hoc Networks: A Survey. <i>Journal of Network and Computer Applications</i> , 60, 68-81. doi:10.1016/j.jnca.2015.12.002
Journal article	Airehrour, D., Gutierrez, J., & Ray, S. K. (2016). Secure routing for internet of things: A survey. <i>Journal of Network and Computer Applications</i> , 66, 198-213. doi:10.1016/j.jnca.2016.03.006
Conference contribution	Qi, R., Liu, W., Gutierrez, J., & Malik, A. W. (2016). Crash me if you can: Rethinking sustainable Data Center Networking from a topological perspective. In <i>Proceedings - IEEE INFOCOM Vol. 2016-September</i> (pp. 566-571). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/INFOCOMW.2016.7562140
Conference contribution	Jarrah, H., Chong, P., Sarkar, N. I., & Gutierrez, J. (2016). A Time-Free Comparison-Based System-Level Fault Diagnostic Model for Highly Dynamic Networks. In <i>Proceedings of the 11th International Conference on Queuing Theory and Networking Applications (QTNA 2016)</i> . Wellington, New Zealand.
Conference contribution	Airehrour, D., Gutierrez, J., & Ray, S. K. (2016). Greening and Optimizing Energy Consumption of Sensor Nodes in the Internet of Things through Energy Harvesting: Challenges and Approaches. In <i>CONF-IRM 2016 Proceedings</i> . Cape Town, South Africa: AISel. Retrieved from <a href="http://aisel.aisnet.org/confirm2016/42">http://aisel.aisnet.org/confirm2016/42</a>
Conference contribution	Airehrour, D., Gutierrez, J., & Ray, S. K. (2016). A Lightweight Trust Design for IoT Routing. In <i>Proceedings of the 14th IEEE International Conference on Pervasive Intelligence and Computing (PICom-2016)</i> . Auckland, New Zealand.
Conference contribution	Chiaraviglio, L., Blefari-Melazzi, N., Liu, W., Gutierrez, J., Van De Beek, J., Birke, R., . . . Wu, J. (2016). 5G in Rural and Low-Income Areas: Are We Ready?. In <i>Proceedings of the 8th ITU Kaleidoscope Academic Conference</i> . Bangkok, Thailand. Retrieved from <a href="http://www.itu.int/">http://www.itu.int/</a>
Conference contribution	Mambu, J. Y., & Gutierrez, J. (2016). Emergency Broadcast System: A Reverse 911 Tsunami Information Dissemination System Prototype. In <i>Proceedings of the 26th International Telecommunication Networks and Applications Conference (ITNAC 2016)</i> (pp. 44-47). Dunedin, New Zealand.
Conference contribution	Usman, A. B., & Gutierrez, J. (2016). A reliability-based trust model for efficient collaborative routing in wireless networks. In <i>Proceedings of the 11th International Conference on Queuing Theory and Networking Applications (QTNA 2016)</i> . Wellington, New Zealand: ACM Digital Library. doi:10.1145/3016032.3016057
Journal article	Beltran, F., Ray, S. K., & Gutierrez, J. A. (2016). Understanding the Current Operation and Future Roles of Wireless Networks: Co-Existence, Competition and Co-Operation in the Unlicensed Spectrum Bands. <i>IEEE Journal on Selected Areas in Communications</i> , 34(11), 2829-2837. doi:10.1109/J SAC.2016.2614951
Journal article	Gul, S., Sarkar, N. I., & Gutierrez, J. (2016). A review of New Zealand Telecommunications: Legislation, Regulations, and Recommendations. <i>Australian Journal of Telecommunications and the Digital Economy</i> , 4(4), 172-195. doi:10.18080/ajtde.v4n4.70

## JAMES ROTIMI

Publication Type	Citation
Journal article	Oyewobi, L. O., Windapo, A., & Rotimi, J. O. B. (2016). Relationship between decision-making style, competitive strategies and organisational performance among construction organisations. <i>Journal of Engineering, Design and Technology</i> , 14(4), 713-738. doi:10.1108/JEDT-04-2015-0025
Journal article	Rotimi, J. O. B., Lambers, R., & Zaeri, F. (2016). Trust and inter organisational interactions for managing conflicts in blended teams. <i>Journal of Legal Affairs and Dispute Resolution in Engineering and Construction</i> , 8(1), C4515004-1-C4515004-6. doi:10.1061/(ASCE)LA.1943-4170.0000174
Conference contribution	Adafin, J. K., Wilkinson, S. J., Rotimi, J. O. B., & Odeyinka, H. A. (2016). Evaluating the budgetary reliability of design stage elemental cost plan in building procurement: A New Zealand study. In A. O. Windapo, S. J. Odediran, & A. Adediran (Eds.), <i>9th cidb Postgraduate Conference</i> (pp. 60-70). Cape Town, South Africa. Retrieved from <a href="http://webcms.uct.ac.za/">http://webcms.uct.ac.za/</a>
Journal article	Oyewobi, L. O., Windapo, A. O., & Rotimi, J. O. B. (2016). Environment, competitive strategy, and organizational characteristics: A path analytic model of construction organizations' performance in South Africa. <i>Canadian Journal of Administrative Sciences</i> . doi:10.1002/cjas.1384
Journal article	Francis, M., Ramachandra, T., & Rotimi, J. O. B. (2016). Strategies to minimise the effects of delayed payments. <i>Proceedings of the Institution of Civil Engineers: Management, Procurement and Law, MPL-D-15-00038</i> , 1-9. doi:10.1680/jmapl.15.00038
Journal article	Oyewobi, L. O., Windapo, A. O., Rotimi, J. O. B., & Jimoh, R. A. (2016). Relationship between competitive strategy and construction organisation performance: The moderating role of organisational characteristics. <i>Management Decision</i> , 54(9), 2340-2366. doi:10.1108/MD-01-2016-0040
Journal article	Adafin, J., Rotimi, J. O. B., & Wilkinson, S. (2016). Determining significant risks in the variability between design-stage elemental cost plan and final tender sum. <i>Journal of Management in Engineering</i> , 05016016-1-05016016-10. doi:10.1061/(ASCE)ME.1943-5479.0000448
Conference contribution	Balasundaram, K., Ramachandra, T., & Rotimi, J. O. B. (2016). Insurance policies applicable to Sri Lankan construction industry: The extent it serves its intended purpose. In <i>RICS COBRA Conference</i> (pp. 11 pages). Toronto, Canada. Retrieved from <a href="http://www.rics.org/">http://www.rics.org/</a>
Journal article	Adafin, J., Rotimi, J. O. B., & Wilkinson, S. (2016). Risk impact assessments in project budget development: Architects' perspectives. <i>Architectural Engineering and Design Management</i> , 12(3), 189-204. doi:10.1080/17452007.2016.1152228
Journal article	GhaffarianHoseini, A., Tookey, J., GhaffarianHoseini, A., Naismith, N., & Rotimi, J. (2016). Integrating alternative technologies to improve built environment sustainability in Africa: Nexus of energy and water. <i>Smart and Sustainable Built Environment</i> , 5(3), 193-211.
Conference contribution	Rotimi, J. O. B., Zaeri, F., Rotimi, F. E., & Owolabi, J. D. (2016). The effectiveness of the Last Planner System In New Zealand construction industry: Towards an empirical justification. In K. Kahkonen, & M. Keinanen (Eds.), <i>Proceedings of the CIB World Building Congress 2016 Vol. 1</i> (pp. 528-539). Tampere, Finland: Tampere University of Technology. Retrieved from <a href="https://tutcris.tut.fi/portal/files/6186667/WBC16_Vol_1.pdf">https://tutcris.tut.fi/portal/files/6186667/WBC16_Vol_1.pdf</a>
Conference contribution	Rotimi, J. O. B., Ramachandra, T., & Windapo, A. O. (2016). An analysis of Liquidators' reports for construction companies in New Zealand. In <i>Annals 10th ICEC World Congress</i> (pp. 1001-1010). Rio de Janeiro, Brazil. Retrieved from <a href="http://icec2016.com/wp-content/uploads/2016/12/2016_012_ANAIS_BOOK-5.pdf">http://icec2016.com/wp-content/uploads/2016/12/2016_012_ANAIS_BOOK-5.pdf</a>

Conference contribution	Samasoni, J. C., & Rotimi, J. O. B. (2016). Building control and regulatory balance: Perspectives of building professionals in New Zealand. In H. H. Lau, F. E. Tang, C. K. Ng, & A. Singh (Eds.), <i>Integrated Solutions for Infrastructure Development</i> (pp. 1–6). Kuching, Sarawak, Malaysia: ISEC Press. doi:10.14455/ISEC.res.2016.161
Journal article	Rajeh, M., Tookey, J., & Rotimi, J. (2016). Developing a procurement path determination chart SEM-based approach. <i>Construction Management and Economics</i> . doi:10.1080/01446193.2016.1151538
Conference contribution	Adaforin, J., Wilkinson, S., Rotimi, J. O. B., & Odeyinka, H. (2016). Methodological approaches to risk assessments during cost plan production. In O. J. Ebohon, D. A. Ayeni, C. O. Egbu, & F. K. Omole (Eds.), <i>The Joint International Conference JIC 2016</i> (pp. 894–902). Akure, Nigeria.
Conference contribution	Rotimi, J. O. B., Rotimi, F. E., & Bustani, S. A. (2016). Review of legislative changes in disasters: New Zealand case study. In N. Domingo, & S. Wilkinson (Eds.), <i>Building Resilience to Address the Unexpected</i> (pp. 540–549). Auckland, New Zealand. Retrieved from <a href="http://buildresilience2016.nz/">http://buildresilience2016.nz/</a>
Conference contribution	Weerasinghe, A., Ramachandra, T., & Rotimi, J. O. B. (2016). A simplified model for predicting running cost of office buildings in Sri Lanka. In P. W. Chan, & C. J. Neilson (Eds.), <i>Proceedings 32nd Annual Association of Researchers in Construction Management (ARCOM) Conference Vol. 1</i> (pp. 341–350). Manchester, UK: Association of Researchers in Construction Management. Retrieved from <a href="http://www.arcom.ac.uk/~docs/proceedings/bc5585038f954e91a0b632798da0567a.pdf">http://www.arcom.ac.uk/~docs/proceedings/bc5585038f954e91a0b632798da0567a.pdf</a>
Conference contribution	Dananajaya, O., Ramachandra, T., & Rotimi, J. O. (2016). A framework to enhance productivity in construction projects involving international professionals and contractors in Sri Lanka. In RICS COBRA Conference (pp. 8 pages). Toronto, Canada. Retrieved from <a href="http://www.rics.org/">http://www.rics.org/</a>
Conference contribution	Samasoni, J., & Rotimi, J. O. B. (2016). Perceptions of regulatory building inspectors and designers on the proposed risk-based inspection regime in New Zealand. In P. W. Chan, & C. J. Neilson (Eds.), <i>Proceedings 32nd Annual Association of Researchers in Construction Management (ARCOM) Conference</i> (pp. 227–236). Manchester, UK: Association of Researchers in Construction Management. Retrieved from <a href="http://www.arcom.ac.uk/~docs/proceedings/066bb42bd884bd98ac1eedfccf9648a4.pdf">http://www.arcom.ac.uk/~docs/proceedings/066bb42bd884bd98ac1eedfccf9648a4.pdf</a>
Conference contribution	Windapo, A. O., Adediran, A. A., & Rotimi, J. O. B. (2016). Clients' knowledge of procurement systems and its influence on construction project performance. In <i>5th Construction Management Conference</i> (pp. 110–119). Port Elizabeth, South Africa.

## JEFFREY HUNTER

Publication Type	Citation
Journal article	"Hunter, J. (2016). Accurate calculations of Stationary Distributions and Mean First Passage Times in Markov Renewal Processes and Markov Chains. <i>Special Matrices</i> , 4(1), 151–175. doi:10.1515/spma-2016-0015"
Journal article	Hunter, J., & Gustafson, K. (2016). Why the Kemeny Time is a Constant. <i>Special Matrices</i> , 4(1), 176–180. doi:10.1515/spma-2016-0016
Journal article	Hunter, J. (2016). The computation of key properties of Markov chains via perturbations. <i>Linear Algebra and its Application</i> , 511, 176–202. doi:10.1016/j.laa.2016.09.004
Journal article	Hunter, J. (2016). Editors' Summary for the Special Issue: Proceedings of the 24th International Workshop on Matrices and Statistics. <i>Special Matrices</i> , 4, 326–327. doi:10.1515/spma-2016-0031

## JEONG LEE

Publication Type	Citation
Journal article	Lee, J., & Villa, C.. (2016). Model prior distribution for variable selection in linear regression models. <i>arXiv</i> . Retrieved from <a href="http://arxiv.org/abs/1512.08077">http://arxiv.org/abs/1512.08077</a>
Journal article	Lee, J., Kamary, K., & Robert, C. P. (2016). Non-informative reparameterisations for location-scale mixtures. <i>arXiv</i> . Retrieved from <a href="http://arxiv.org/abs/1601.01178">http://arxiv.org/abs/1601.01178</a>

## JI RUAN

Publication Type	Citation
Conference contribution	Huang, X., Ruan, J., Chen, Q., & Su, K. (2016). Normative multiagent systems: A dynamic generalization. In Proceedings of the Twenty-Fifth International Joint Conference on Artificial Intelligence (IJCAI-16) (pp. 1123-1129). New York, USA: AAAI Press / International Joint Conferences on Artificial Intelligence. Retrieved from <a href="http://www.ijcai.org/Proceedings/16/Papers/163.pdf">http://www.ijcai.org/Proceedings/16/Papers/163.pdf</a>

## JIAN YU

Publication Type	Citation
Journal article	Han, Y., Wang, G., Yu, J., Liu, C., Zhang, Z., & Zhu, M. (2016). A Service-Based Approach to Traffic Sensor Data Integration and Analysis to Support Community-Wide Green Commute in China. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 17(9), 2648-2657. doi:10.1109/TITS.2015.2498178
Journal article	Yu, J., Han, J., Schneider, J. -G., Hine, C., & Versteeg, S. (2016). A Petri-Net-Based Virtual Deployment Testing Environment for Enterprise Software Systems. <i>The Computer Journal</i> . doi:10.1093/comjnl/bxw055
Conference contribution	Ngamakeur, K., Yongchareon, S., Liesaputra, V., Liu, C., & Yu, J. (2016). An Artifact-Centric Business Process Execution Platform. In R. Dijkman, L. F. Pires, & S. Rinderle-Ma (Eds.), <i>Enterprise Distributed Object Computing Workshop (EDOCW), 2016 IEEE 20th International</i> . IEEE. doi:10.1109/EDOCW.2016.7584344

## JIANCHAO (ELLIOT) ZHANG

Publication Type	Citation
Conference contribution	Seet, B. -C., Zhang, J., & Liu, Y. (2016). In-home assisted living for elderly dementia care. In <i>SAI Intelligent Systems Conference</i> (pp. 1095-1100). USA: IEEE.

## JILING CAO

Publication Type	Citation
Journal article	Cao, J., Lian, G., & Roslan, T. R. N. (2016). Pricing variance swaps under stochastic volatility and stochastic interest rate. <i>Applied Mathematics and Computation</i> , 277, 72-81. doi:10.1016/j.amc.2015.12.027
Journal article	Lin, F., Liu, C., & Cao, J. (2016). Two weak forms of countability axioms in free topological groups. <i>Topology and its Applications</i> , 207, 96-108. doi:10.1016/j.topol.2016.04.019
Report	Beer, G., & Cao, J. (2016). <i>Oscillation revisited</i> (arXiv:1608.03043). Cornell University Library: arXiv. Retrieved from <a href="http://arxiv.org/abs/1608.03043">http://arxiv.org/abs/1608.03043</a>
Report	Cao, J., Nazirah Roslan, R., & Zhang, W. (2016). Pricing variance swaps in a hybrid model of stochastic volatility and interest rate with regime-switching (arXiv:1603.08289). Cornell University Library: arXiv. Retrieved from <a href="https://arxiv.org/pdf/1603.08289">https://arxiv.org/pdf/1603.08289</a>
Report	Cao, J. (2016). <i>Three open problems on the Wijsman topology</i> (arXiv:1609.03119). Cornell University Library: arXiv. Retrieved from <a href="https://arxiv.org/abs/1609.03119">https://arxiv.org/abs/1609.03119</a>
Journal article	Bhowmik, A., & Cao, J. (2016). Rational expectations equilibria: existence and representation. <i>Economic Theory Bulletin</i> , 4, 367-386. doi:10.1007/s40505-016-0103-2

## JOHN COLLINS

Publication Type	Citation
Journal article	Perera, A., & Collins, J. (2016). Novel Embedded System Based Species Recognition System for Pest Control. <i>International Journal of Computing and Digital Systems</i> , 5(5), 387–393. doi:10.12785/ijcds/050503
Conference contribution	Yang, C., & Collins, J. (2016). A model for honey bee tracking on 2D video. In <i>International Conference Image and Vision Computing New Zealand</i> Vol. 2016–November. IEEE Computer Society. doi:10.1109/IVCNZ.2015.7761542

## JOHN TOOKEY

Publication Type	Citation
Journal article	GhaffarianHoseini, A., Tookey, J., GhaffarianHoseini, A., Naismith, N., & Rotimi, J. (2016). Integrating alternative technologies to improve built environment sustainability in Africa: Nexus of energy and water. <i>Smart and Sustainable Built Environment</i> , 5(3), 193–211.
Journal article	GhaffarianHoseini, A., Tookey, J., GhaffarianHoseini, A., Yusoff, S. M., & Hassan, N. B. (2016). State of the art of rainwater harvesting systems towards promoting green built environments: a review. <i>Desalination and Water Treatment</i> , 57(1), 95–104. doi:10.1080/19443994.2015.1021097
Journal article	Ghaffarianhoseini, A., Ghaffarianhoseini, A., Berardi, U., Tookey, J., Li, D. H. W., & Kariminia, S. (2016). Exploring the advantages and challenges of double-skin façades (DSFs). <i>Renewable and Sustainable Energy Reviews</i> , 60, 1052–1065. doi:10.1016/j.rser.2016.01.130
Chapter or section in books	GhaffarianHoseini, A., GhaffarianHoseini, A., Tookey, J., Omrany, H., Fleury, A., Naismith, N., & Ghaffarianhoseini, M. (2016). The Essence of Smart Homes: Application of Intelligent Technologies towards Smarter Urban Future. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 330–372). doi:10.4018/978-1-5225-0016-2.ch014
Journal article	Rajeh, M., Tookey, J., & Rotimi, J. (2016). Developing a procurement path determination chart SEM-based approach. <i>Construction Management and Economics</i> . doi:10.1080/01446193.2016.1151538
Journal article	Omrany, H., GhaffarianHoseini, A., GhaffarianHoseini, A., Raahemifar, K., & Tookey, J. (2016). Application of passive wall systems for improving the energy efficiency in buildings: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 62, 1252–1269. doi:10.1016/j.rser.2016.04.010

## JONATHAN CURRIE

Publication Type	Citation
Journal article	Phillips, J. G., Currie, J., & Ogeil, R. P. (2016). Consumption and foraging behaviors for common stimulants (nicotine, caffeine). <i>Journal of Addictive Diseases</i> , 35(1), 15–21. doi:10.1080/10550887.2015.1094721
Conference contribution	Al Karim, M., Currie, J., & Lie, T. (2016). A distributed machine learning approach for the secondary voltage control of an Islanded micro-grid. In <i>2016 IEEE Innovative Smart Grid Technologies - Asia (ISGT-Asia)</i> (pp. 611–616). Melbourne Australia. doi:10.1109/ISGT-Asia.2016.7796454

## JOSAFATH RAMOS

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecchi, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1–14. doi:10.1016/j.neunet.2015.09.011

## KALPANI GUNAWARDANE

Publication Type	Citation
Conference contribution	Ullah, A., Lie, T. T., Gunawardane, K., & Nair, N. K. C. (2016). Development of Browne's Arc Model for HTS applications. In 2016 IEEE International Conference on Power Systems Technology. Australia. Retrieved from <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7753971">http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7753971</a>
Conference contribution	Subasinghage, K., Gunawardane, K., Lie, T., & Kularatna, N. (2016). Design concepts and preliminary implementations of dual output supercapacitor-assisted low-dropout regulators (DO-SCALDO). In Australasian Universities Power Engineering Conference 2016. Brisbane, Australia. doi:10.1109/AUPEC.2016.7749346

## KATHRYN OWLER

Publication Type	Citation
Conference contribution	Owler, K., & Morrison, R. L. (2016). Enjoy yourself at work and support students too!. In <i>International Consortium of Academic Languages and Learning Developers Inaugural Online Symposium</i> .
Conference contribution	"Owler, K. (2016). From anti-structure to structure: Comparing the traditional and contemporary experience of PhD writing. In M. Davis, & A. Goody (Eds.), <i>Research and Development in Higher Education: The Shape of Higher Education</i> Vol. 39 (pp. 248-257). Fremantle, Australia: Higher Education Research and Development Society of Australasia."
Oral presentation	Owler, K. (2016). <i>Thinking critically about critical thinking: A discussion session on the role of post-graduate learning advisors in teaching critical thinking at university</i> . Christchurch. Retrieved from <a href="http://www.atlaanz.org/conferences/2016-conference">http://www.atlaanz.org/conferences/2016-conference</a>

## KENNETH JOHNSON

Publication Type	Citation
Conference contribution	Calinescu, R., Johnson, K., & Paterson, C. (2016). FACT: A probabilistic model checker for formal verification with confidence intervals. In M. Chechik, & J. -F. Raskin (Eds.), <i>Proceedings of the 22nd International Conference on Tools and Algorithms for the Construction and Analysis of Systems</i> Vol. 9636 (pp. 540-546). Springer Verlag. doi:10.1007/978-3-662-49674-9_32

## KERRI SPOONER

Publication Type	Citation
Conference contribution	Spooner, K., & Clear, T. (2016). A Foundation Programme Preparing Students for Future Study in Computing and Engineering Degrees. In <i>Proceedings 2016 Learning and Teaching in Computing and Engineering (LaTICE 2016)</i> (pp. 66-70). Mumbai, India: IEEE.

## KRASSIMIRA PETROVA

Publication Type	Citation
Journal article	Lee, H., Parsons, D., Kwon, G., Kim, J., Petrova, K., Jeong, E., & Ryu, H. (2016). Cooperation begins: Encouraging critical thinking skills through cooperative reciprocity using a mobile learning game. <i>Computers and Education</i> , 97, 97-115. doi:10.1016/j.compedu.2016.03.006
Conference contribution	Petrova, K., MacDonell, S. G., & Parry, D. (2016). Mobile data service adoption and use from a service supply perspective - An Empirical Investigation. In C. Callegari, M. van Sinderen, P. Sarigiannidis, P. Samarati, E. Cabello, & P. Lorenz (Eds.), <i>Proceedings of the 13th International Joint Conference on e-Business and Telecommunications</i> Vol. Volume 2: ICE-B (pp. 86-97). Lisbon, Portugal: SCITEPRESS - Science and Technology Publications, Lda. doi:10.5220/0005966100860097

Conference contribution	Petrova, K., Romaniello, A., Medlin, B. D., & Vannoy, S. A. (2016). QR codes advantages and dangers. In C. Callegari, M. van Sinderen, P. Sarigiannidis, P. Smarati, E. Cabello, P. Lorenz, & M. S. Obaidat (Eds.), <i>Proceedings of the 13th International Joint Conference on e-Business and Telecommunications (ICETE 2016) Vol. Volume 2: ICE-B</i> (pp. 112-116). Lisbon Marriott Hotel: SCITEPRESS – Science and Technology Publications, Lda.. doi:10.5220/0005993101120115
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### KRISHNAMACHAR PRASAD

Publication Type	Citation
Conference contribution	Bassey, E., Sallis, P., & Prasad, K. (2016). Analysis of Methanol Sensitivity on SnO <sub>2</sub> -ZnO Nanocomposite. In <i>2016 Annual Meeting and Exhibition of The Mineral, Metal and Materials Society (TMS2016)</i> . Nashville, USA.
Journal article	BALASUBRAMANIAN, P., Prasad, K., & MASTORAKIS, N. E. (2016). A Fault Tolerance Improved Majority Voter for TMR System Architectures. <i>WSEAS TRANSACTIONS on CIRCUITS and SYSTEMS</i> , 15, 108-122.
Journal article	Kilby, Prasad, K., & Mawston, G. (2016). Multi-channel Surface Electromyography Electrodes: A Review. <i>IEEE Sensors Journal</i> , 16(14), 5510-5519. doi:10.1109/JSEN.2016.2569072
Conference contribution	Balasubramanian, P., & Prasad, K. (2016). Early output hybrid input encoded asynchronous full adder and relative-timed ripple carry adder. In H. R. Arabnia, & L. Deligiannidis (Eds.), <i>Proceedings of the 2016 international conference on embedded systems, cyber-physical systems &amp; applications ESCS 2016</i> (pp. 62-65). Las Vegas, USA: CSREA Press.
Conference contribution	Kulkarni, R., Prasad, K., Lie, T., Badcock, R. A., Bumby, C. W., & Sung, H. J. (2016). FEM and performance analysis of 10kW HTS generator with flux pump excitation. In <i>IEEE POWERCON 2016</i> . Australia.
Conference contribution	Kilby, J., Prasad, K., & Mawston, G. (2016). Design of New Multi-channel Electrodes for Surface Electromyography Signals for Signal-Processing. In <i>2016 38th Annual International Conference Of The IEEE Engineering In Medicine And Biology Society (EMBC)</i> (pp. 4853-4856). Lake Buena Vista, USA: IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/">http://ieeexplore.ieee.org/</a>
Conference contribution	Kulkarni, R., Prasad, K., Lie, T. T., Badcock, R. A., & Bumby, C. W. (2016). FEM and performance analysis of 10 kW HTS generator with flux pump excitation. In <i>Power System Technology (POWERCON), 2016 IEEE International Conference on</i> (pp. 1-6). Wollongong, Australia: IEEE <a href="http://ieeexplore.ieee.org/">http://ieeexplore.ieee.org/</a> . doi:10.1109/POWERCON.2016.7753913

### LEO HITCHCOCK

Publication Type	Citation
Oral presentation	Hitchcock, L. (2016). <i>Symbolic Interactionism and Phenomenography</i> . Gothenburg, Sweden.

### LOULIN HUANG

Publication Type	Citation
Journal article	Lotfi, B., & Huang, L. (2016). An approach for velocity and position estimation through acceleration measurements. <i>Measurement: Journal of the International Measurement Confederation</i> , 90, 242-249. doi:10.1016/j.measurement.2016.04.011
Journal article	Huang, L. (2016). An approach for bicycles kinematic analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part K: Journal of Multi-body Dynamics</i> , 231(1), 278-284. doi:10.1177/1464419316646652
Conference contribution	Nam, L. H., Huang, L., Li, X. J., & Xu, J. F. (2016). An approach for coverage path planning for UAVs. In <i>2016 IEEE 14th International Workshop on Advanced Motion Control, AMC 2016</i> (pp. 411-416). Auckland: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/AMC.2016.7496385

Conference contribution	Bharatharaj, J., Huang, L., Al-Jumaily, A. M., Krageloh, C., & Elara, M. R. (2016). Qualitative and quantitative analysis of the effects of adapted model- rival Method and parrot-inspired robot on children with Autism. In <i>The 2016 International Conference on Robotics and Automation for Humanitarian Applications(RAHA)</i> (pp. 26-30). Kerala, India.
Conference contribution	Huang, L., Huang, J., & Xu, J. (2016). On complexity and effectiveness of attitude controllers of quad-rotor UAVs. In <i>23rd International Conference on Mechatronics and Machine Vision in Practice</i> (pp. 6 pages). Nanjing, China. doi:10.1109/M2VIP.2016.7827273

## MARTIN STOMMEL

Publication Type	Citation
Journal article	Stommel, M., Kuhnert, K. -D., & Xu, W. (2016). Inexact matching of structural models based on the duality of patterns and classifiers. <i>Pattern Analysis and Applications</i> , 19(1), 55-67. doi:10.1007/s10044-014-0384-8
Journal article	Deng, Z., Stommel, M., & Xu, W. (2016). A novel soft machine table for manipulation of delicate objects inspired by caterpillar locomotion. <i>IEEE/ASME Transactions on Mechatronics</i> , 21(3), 1702-1710. doi:10.1109/TMECH.2016.2519333
Journal article	Stommel, M., & Xu, W. (2016). Learnability of the Moving Surface Profiles of a Soft Robotic Sorting Table. <i>IEEE Transactions on Automation Science and Engineering</i> . doi:10.1109/TASE.2016.2570208
Conference contribution	Hashem, R., Smith, B., Browne, D., Xu, W., & Stommel, M. (2016). Control of a soft-bodied XY peristaltic table for delicate sorting. In <i>2016 IEEE 14th International Workshop on Advanced Motion Control, AMC 2016</i> (pp. 358-363). Auckland, New Zealand: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/AMC.2016.7496376
Conference contribution	Dirven, S., Stommel, M., Hashem, R., & Xu, W. (2016). Medically-inspired approaches for the analysis of soft-robotic motion control. In <i>2016 IEEE 14th International Workshop on Advanced Motion Control, AMC 2016</i> (pp. 370-375). Auckland, New Zealand: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/AMC.2016.7496378
Conference contribution	Deng, Z., Stommel, M., & Xu, W. (2016). Pneumatic system and low-level control of a soft machine table inspired by caterpillar locomotion. In <i>2016 IEEE 14th International Workshop on Advanced Motion Control, AMC 2016</i> (pp. 364-369). Auckland, New Zealand: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/AMC.2016.7496377
Book	Stommel, M., & Green, R. (2016). <i>Proceedings of the 2015 International Conference on Image and Vision Computing New Zealand (IVCNZ)</i> . IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7748304">http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=7748304</a>

## MARYAM GHOLAMI

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1-14. doi:10.1016/j.neunet.2015.09.011
Conference contribution	Gholami, M., & Kasabov, N. (2016). Personalised Modelling on Integrated Clinical and EEG Spatio-Temporal Brain Data in the NeuCube Spiking Neural Network System. In Z. H. Zhou (Ed.), <i>Proceedings of the IEEE WCCI 2016</i> (pp. 1373-1378). Vancouver, Canada: IEEE.
Conference contribution	Gholami Doborjeh, Z., Gholami, M., & Kasabov, N. (2016). Efficient recognition of attentional bias using EEG data and the NeuCube evolving Spatio-Temporal Data Machine. In <i>International Conference on Neural Information Processing 2016 Vol. 9950</i> (pp. 645-653). Kyoto: Springer International Publishing AG 2016. doi:10.1007/978-3-319-46681-1-76

Conference contribution	Kawano, H., Seo, A., Gholami Doborjeh, Z., Kasabov, N., & Gholami, M. (2016). Analysis of Similarity and Differences in Brain Activities between Perception and Production of Facial Expressions Using EEG Data and the NeuCube Spiking Neural Network Architecture. In International Conference on Neural Information Processing 2016 (pp. 221-227). Kyoto, Japan: Springer International Publishing AG 2016. doi:10.1007/978-3-319-46681-1_27
Journal article	Kasabov, N. K., Doborjeh, M. G., & Doborjeh, Z. G. (2016). Mapping, Learning, Visualization, Classification, and Understanding of fMRI Data in the NeuCube Evolving Spatiotemporal Data Machine of Spiking Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 28(4), 887-899. doi:10.1109/TNNLS.2016.2612890
Journal article	Gholami, M., Wang, G., Kasabov, N., Kydd, R., & Russell, B. (2016). A spiking neural network methodology and system for learning and comparative analysis of EEG data from healthy versus addiction treated versus addiction not treated subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 63(9), 1830-1841. doi:10.1109/TBME.2015.2503400
Journal article	Kasabov, N., Zhou, L., Doborjeh, M., Gholami, Z., & Jie Yang. (2016). New algorithms for encoding, learning and classification of fMRI data in a spiking neural network architecture: A case on modelling and understanding of dynamic cognitive. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 99. doi:10.1109/TCDS.2016.2636291

### MAXIMIANO RAMOS

Publication Type	Citation
Journal article	Pethaiah, S. S., Arunkumar, J., Ramos, M., Al-Jumaily, A., & Manivannan, N. (2016). The impact of anode design on fuel crossover of direct ethanol fuel cell. <i>Bulletin of Materials Science</i> , 39(1), 273-278.
Journal article	Ramos, J. S., Dalleck, L. C., Ramos, M. V., Borrani, F., Roberts, L., Gomersall, S., . . . Coombes, J. S. (2016). 12min/week of high-intensity interval training reduces aortic reservoir pressure in individuals with metabolic syndrome: A randomized trial. <i>Journal of Hypertension</i> , 34(10), 1977-1987. doi:10.1097/HJH.0000000000001034
Journal article	Ramos, J. S., Ramos, M. V., Dalleck, L. C., Borrani, F., Walker, K. B., Fassett, R. G., . . . Coombes, J. S. (2016). Fitness Is Independently Associated with Central Hemodynamics in Metabolic Syndrome. <i>Medicine and Science in Sports and Exercise</i> , 48(8), 1539-1547. doi:10.1249/MSS.0000000000000916

### MAZIAR RAMEZANI

Publication Type	Citation
Journal article	Ramezani, M., & Neitzert, T. (2016). Computer simulations of direct extrusion of sintered Ti-6Al-4V alloy at elevated temperature. <i>International Journal of Applied Engineering Research</i> , 11(6), 3848-3852.
Journal article	Pasang, T., Ramezani, M., Prygoski, M., Wanhill, R., Byrnes, R., Kamiya, O., & Tanaka, K. (2016). Fatigue of commercially pure titanium dental implants. <i>Materials Physics and Mechanics</i> , 27(1), 79-89.
Chapter or section in books	Ramezani, M., & Neitzert, T. (2016). Formability of annealed AZ61 magnesium alloy at elevated temperatures. In M. Liewald (Ed.), <i>New developments in sheet metal forming: Hydroforming of sheets, tubes and profiles</i> (Vol. 9, pp. 337-347). INVENTUM GmbH.
Conference contribution	Schmid, S., & Ramezani, M. (2016). Developments in environmentally-friendly metalforming lubricants. In <i>7th International Conference on Tribology in Manufacturing Processes</i> (pp. 348-355). Phuket, Thailand.

## MD AKBAR HOSSAIN

Publication Type	Citation
Conference contribution	Hossain, A., Ray, S. K., & Sinha, R. (2016). A smartphone-assisted post-disaster victim localization method. In C. Leung (Ed.), <i>18th IEEE International Conference on High Performance Computing and Communications</i> . Sydney, Australia.

## MEE YANG

Publication Type	Citation
Conference contribution	Yang, M. L., Narayanan, A., Parry, D., & Wang, X. (2016). A lightweight authentication scheme for transport system farecards. In 2016 IEEE International Conference on RFID Technology and Applications, RFID-TA 2016 (pp. 150-155). Marriott Hotel: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/RFID-TA.2016.7750746

## MICHAEL GSCHWENDTNER

Publication Type	Citation
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). An experimental investigation of parallel bubble pump performance. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Performance of a cooling system driven by engine exhaust heat. In Proceedings of 4th IIR Conference on Sustainability & the Cold Chain. Auckland: International Institute of Refrigeration. Retrieved from <a href="http://www.iifir.org/">http://www.iifir.org/</a>
Journal article	Amoedo, S., Thebaud, E., Gschwendtner, M., & White, D. (2016). Novel parameter-based flexure bearing design method. <i>Cryogenics</i> , <i>76</i> , 1-9. doi:10.1016/j.cryogenics.2016.03.002
Journal article	Gschwendtner, M., Gschwendtner, M. A., & Bell, G. (2016). The Myth about Dead Volume in Stirling Engines. <i>Proc IMechE Part C: J Mechanical Engineering Science</i> . doi:10.1177/0954406216651303
Journal article	Caughley, A., Sellier, M., Gschwendtner, M., & Tucker, A. (2016). CFD analysis of a diaphragm free-piston Stirling cryocooler. <i>Cryogenics</i> , <i>79</i> , 7-16. doi:10.1016/j.cryogenics.2016.06.009
Conference contribution	Gschwendtner, M., Langdon-Arms, S., & Neumaier, M. (2016). Development of a heat-actuated unconstrained 4 cylinder double-acting alpha-type liquid piston stirling cooler. In <i>Proceedings of the 17th International Stirling Engine Conference</i> . Newcastle, UK.
Journal article	Caughley, A., Sellier, M., Gschwendtner, M., & Tucker, A. (2016). A free-piston Stirling cryocooler using metal diaphragms. <i>Cryogenics</i> , <i>80</i> , 8-16. doi:10.1016/j.cryogenics.2016.08.005
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Predicting the pumping characteristics of multiple parallel tube air-lift pumps. In The Proceedings of the 20th Australasian Fluid Mechanics Conference. Perth: Australasian Fluid Mechanics Society. Retrieved from <a href="http://www.afms.org.au/">http://www.afms.org.au/</a>

## MIFTAH AL KARIM

Publication Type	Citation
Conference contribution	Al Karim, M., Currie, J., & Lie, T. (2016). A distributed machine learning approach for the secondary voltage control of an Islanded micro-grid. In 2016 IEEE Innovative Smart Grid Technologies - Asia (ISGT-Asia) (pp. 611-616). Melbourne Australia. doi:10.1109/ISGT-Asia.2016.7796454

## MIGUEL JO-AVILA

Publication Type	Citation
Journal article	Jo-Avila, M. J., & Al-Jumaily, A. M. (2016). Superimposed pressure oscillations: an alternative to treat airway hyperresponsiveness in an acute sensitized airways mouse model.. <i>Respir Physiol Neurobiol</i> . doi:10.1016/j.resp.2016.12.002

## MING XIANG

Publication Type	Citation
Journal article	Xiang, M., Liu, W., & Bai, Q. (2016). A fuzzy logic-based sustainable and trusted routing for P2P enabled smart grid. <i>International Journal of Computational Science and Engineering</i> , 13(2), 165-174. doi:10.1504/IJCSE.2016.078445
Chapter or section in books	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). Dynamic Trust Elective Geo Routing to Secure Smart Grid Communication Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 323-343). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch014
Journal article	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). The critical role of structural hole in forming trust for Securing Wireless Sensor Networks. <i>International Journal of Information, Communication Technology and Applications</i> , 2(1), 66. doi:10.17972/ijicta20162127

## MINH NGUYEN

Publication Type	Citation
Journal article	Nguyen, M. (2016). Automatic generation of a realistic looking single image Stereogram using stereo vision. In <i>International Conference on Pattern Recognition (ICPR 2016)</i> . IEEE. Retrieved from <a href="http://www.icpr2016.org/site/full-program/">http://www.icpr2016.org/site/full-program/</a>
Conference contribution	Nguyen, M., & Yeap, W. (2016). StereoTag: A novel Stereogram-Marker-Based approach for augmented reality. In <i>International Conference on Pattern Recognition (ICPR 2016)</i> . IEEE. Retrieved from <a href="http://www.icpr2016.org/site/full-program/">http://www.icpr2016.org/site/full-program/</a>
Chapter or section in books	Gu, D., Nguyen, M., & Yan, W. (2016). Cross models for twin recognition. <i>International Journal of Digital Crime and Forensics</i> , 8(4), 26-36. doi:10.4018/IJDCF.2016100103
Conference contribution	Nguyen, M., Yeap, W., & Hooper, S. (2016). Design of a new trading card for table-top augmented reality game environment. In <i>Image and Vision Computing New Zealand</i> . Image and Vision Computing New Zealand 2016. Retrieved from <a href="http://ivcnz.massey.ac.nz/">http://ivcnz.massey.ac.nz/</a>

## MIRZA MANSOOR BAIG

Publication Type	Citation
Journal article	"Baig, M. M., Gholamhosseini, H., & Connolly, M. J. (2016). Falls risk assessment for hospitalised older adults: a combination of motion data and vital signs. <i>Aging Clinical and Experimental Research, On line</i> . doi:10.1007/s40520-015-0510-5"
Conference contribution	Gholamhosseini, H., Meintjes, A., Baig, M., & Linden, M. (2016). Smartphone-based continuous blood pressure measurement using pulse transit time. In <i>Studies in Health Technology and Informatics Vol. 224</i> (pp. 84-89). Europe: IOS. doi:10.3233/978-1-61499-653-8-84
Chapter or section in books	Baig, M., GholamHosseini, H., & Connolly, M. (2016). Tablet-based clinical decision support system for hospitalised older adults. In F. Florez-Revuelta, & A. Chaaoui (Eds.), <i>Active and Assisted Living: Technologies and Applications</i> (pp. 311-332). UK: IET Digital Library. doi:10.1049/PBHE006E_ch

## MOHAMMED POSHDAR

Publication Type	Citation
Conference contribution	Poshdar, M., González, V. A., O'Sullivan, M., Shahbazpour, M., Walker, C. G., & Golzarpoor, H. (2016). The Role of Conceptual Modeling in Lean Construction Simulation. In Proc. 24 th Ann. Conf. of the Int'l. Group for Lean Construction Vol. 1 (pp. 63-72). Boston, USA: IGLC. Retrieved from <a href="http://iglc.net/Papers/Details/1349/pdf">http://iglc.net/Papers/Details/1349/pdf</a>

## MOHAMMED RAJEH

Publication Type	Citation
Journal article	Rajeh, M., Tookey, J., & Rotimi, J. (2016). Developing a procurement path determination chart SEM-based approach. <i>Construction Management and Economics</i> . doi:10.1080/01446193.2016.1151538

## MOLOOD BARATI

Publication Type	Citation
Conference contribution	Barati, M., Bai, Q., & Liu, Q. (2016). SWARM: An approach for mining semantic association rules from semantic web data. In R. Booth, & M. L. Zhang (Eds.), PRICAI 2016: Trends in Artificial Intelligence. PRICAI 2016. Lecture Notes in Computer Science Vol. 9810 (pp. 30-43). Springer Verlag. doi:10.1007/978-3-319-42911-3_3

## MONJUR AHMED

Publication Type	Citation
Conference contribution	Ahmed, M., Litchfield, A. T., & Sharma, C. (2016). A distributed security model for cloud computing. In <i>AMCIS 2016: Surfing the IT Innovation Wave - 22nd Americas Conference on Information Systems</i> . Sheraton San Diego: Association for Information Systems.

## MUHAMMAD NAEEM

Publication Type	Citation
Conference contribution	Naeem, M. A., Bajwa, I. S., & Jamil, N. (2016). A Cached-based approach to enrich Stream data with master data. In The 10th International Conference on Digital Information Management, ICDIM 2015 (pp. 57-62). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/ICDIM.2015.7381874
Journal article	Jamil, N., Müller, J., Naeem, M. A., Lutteroth, C., & Weber, G. (2016). Extending linear relaxation for non-square matrices and soft constraints. <i>Journal of Computational and Applied Mathematics</i> , 308, 346-360. doi:10.1016/j.cam.2016.05.006
Conference contribution	Naeem, M. A., Lutteroth, C., & Weber, G. (2016). Optimising Queue-based Semi-Stream Joins by Introducing a Queue of Frequent Pages. In L. Chang, W. Zhang, & M. A. Cheema (Eds.), <i>Databases Theory and Applications</i> Vol. 9877 (pp. 407-418). Sydney, Australia: Springer International Publishing. doi:10.1007/978-3-319-46922-5_32
Journal article	Naeem, M. A., Bajwa, I. S., & Jamil, N. (2016). A cached-based stream-relation join operator for semi-stream data processing. <i>International Journal of Data Warehousing and Mining (IJDWM)</i> , 12(3), 14-31. doi:10.4018/IJDWM.2016070102

## MUHAMMAD UZAIR

Publication Type	Citation
Conference contribution	Uzair, M., Anderson, T., & Nates, R. (2016). Air flow around a parabolic dish solar concentrator. In <i>Fluids in New Zealand</i> . Auckland.

## NARGIS CHOWDHURY

Publication Type	Citation
Journal article	Chowdhury, N. A., & Al-Jumaily, A. M. (2016). Regenerated cellulose/polypyrrole/silver nanoparticles/ionic liquid composite films for potential wound healing applications. <i>Wound Medicine</i> , 14, 16-18. doi:10.1016/j.wndm.2016.07.001

## NAVEED REHMAN

Publication Type	Citation
Conference contribution	Rehman, N., Anderson, T., & Nates, R. (2016). Solar Potential Assessment of Facades in an Urban Context: An Algorithm for 1.5D Digital Surface Models. In R. Egan, & R. Passey (Eds.), Proceedings of the Asia Pacific Solar Research Conference 2016. Canberra: Australian PV Institute. Retrieved from <a href="http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/">http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/</a>

## NEELAVA SENGUPTA

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1-14. doi:10.1016/j.neunet.2015.09.011
Conference contribution	Abbott, A., Sengupta, N., & Kasabov, N. (2016). Which method to use for optimal structure and function representation of large spiking neural networks: A case study on the NeuCube architecture. In IJCNN 2016 (pp. 1367-1372). Vancouver, Canada. doi:10.1109/IJCNN.2016.7727357
Conference contribution	Kasabov, N., Sengupta, N., & Scott, N. (2016). From von neumann, John Atanasoff and ABC to Neuromorphic computation and the NeuCube spatio-temporal data machine. In IEEE 8th International Conference on Intelligent Systems (IS), 2016 (pp. 15-21). Sofia. doi:10.1109/IS.2016.7737434

## NENAD POPOVICH

Publication Type	Citation
Conference contribution	Bozovic, D., & Popovich, N. (2016). Submarine optimal control applying Parseval's Theorem. In International Conference on Advances in Mechanical and Automation Engineering - MAE 2016 (pp. 6-11). Rome, Italy: SEEK Digital Library. doi:10.15224/978-1-63248-102-3-41
Conference contribution	Popovich, N., Popovich, N., & Rajul, S. (2016). Heading Control of Unmanned Submersible Vehicle. In 2016 Third International Conference on Mathematics and Computers in Sciences and in Industry (pp. 33-38). Chania, Crete, Greece: CPS Conference Publishing Services. doi:10.1109/MCSI.2016.15
Conference contribution	Popovich, N., & Popovich, N. (2016). Submarine Optimal Depth Control applying Parseval's Theorem. Rome, Italy.
Conference contribution	Popovich, N. (2016). Heading Control of Unmanned Submersible Vehicle. Chania, Crete, Greece.
Journal article	Popovich, N., & Singh, R. R. (2016). Non-Linear Steering Control of Submersible Vehicle. <i>International Journal of Computers and Communications</i> , Volume 10(North Atlantic University Union), 120-128.

## NICOLA NAISMITH

Publication Type	Citation
Journal article	GhaffarianHoseini, A., Tookey, J., GhaffarianHoseini, A., Naismith, N., & Rotimi, J. (2016). Integrating alternative technologies to improve built environment sustainability in Africa: Nexus of energy and water. <i>Smart and Sustainable Built Environment</i> , 5(3), 193-211.

Chapter or section in books	GhaffarianHoseini, A., GhaffarianHoseini, A., Tookey, J., Omrany, H., Fleury, A., Naismith, N., & Ghaffarianhoseini, M. (2016). The Essence of Smart Homes: Application of Intelligent Technologies towards Smarter Urban Future. In A. M. Connor, & S. Marks (Eds.), <i>Creative Technologies for Multidisciplinary Applications</i> (pp. 330–372). doi:10.4018/978-1-5225-0016-2.ch014
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## NICOLAI BOVIN

Publication Type	Citation
Journal article	Williams, E., Barr, K., Korchagina, E., Tuzikov, A., Henry, S., & Bovin, N. (2016). Ultra-fast glyco-coating of non-biological surfaces. <i>International Journal of Molecular Sciences</i> , 17(1). doi:10.3390/ijms17010118
Journal article	Williams, E., Korchagina, E., Frame, T., Ryzhov, I., Bovin, N., & Henry, S. (2016). Glycomapping the fine specificity of monoclonal and polyclonal Lewis antibodies with type-specific Lewis kodecytes and function-spacer-lipid constructs printed on paper. <i>Transfusion</i> , 56(2), 325–333. doi:10.1111/trf.13384
Journal article	Kaczmarek, R., Duk, M., Szymczak, K., Korchagina, E., Tyborowska, J., Mikołajczyk, K., . . . Czerwinski, M. (2016). Human Gb3/CD77 synthase reveals specificity toward two or four different acceptors depending on amino acid at position 211, creating Pk, P1 and NOR blood group antigens. <i>Biochemical and Biophysical Research Communications</i> , 470(1), 168–174. doi:10.1016/j.bbrc.2016.01.017
Journal article	Ryzhov, I. M., Korchagina, E. Y., Popova, I. S., Tyrtysh, T. V., Paramonov, A. S., & Bovin, N. V. (2016). Block synthesis of A (type 2) and B (type 2) tetrasaccharides related to the human ABO blood group system. <i>Carbohydrate Research</i> , 430, 59–71. doi:10.1016/j.carres.2016.04.029
Journal article	Pazynina, G. V., Tsygankova, S. V., Sablina, M. A., Paramonov, A. S., Formanovsky, A. A., & Bovin, N. V. (2016). Synthesis of blood group pentasaccharides ALey, BLey and related tri- and tetrasaccharides. <i>Mendeleev Communications</i> , 26(2), 103–105. doi:10.1016/j.mencom.2016.03.005
Journal article	Barr, K., Kannan, B., Korchagina, E., Popova, I., Ryzhov, I., Henry, S., & Bovin, N. (2016). Biofunctionalizing nanofibers with carbohydrate blood group antigens. <i>Biopolymers</i> , 787–794. doi:10.1002/bip.22907
Journal article	Perry, H., Bovin, N., & Henry, S. (2016). Antibody complement-mediated hemolytic studies with kodecytes reveal that human complement utilized in the classical pathway is more stable than generally accepted.. <i>Transfusion</i> . doi:10.1111/trf.13719
Journal article	García Caballero, G., Kaltner, H., Michalak, M., Shilova, N., Yegres, M., André, S., . . . Gabius, H. -J. (2016). Chicken GRIFIN: A homodimeric member of the galectin network with canonical properties and a unique expression profile. <i>Biochimie</i> , 128–129, 34–47. doi:10.1016/j.biochi.2016.06.001
Journal article	García Caballero, G., Flores-Ibarra, A., Michalak, M., Khasbiullina, N., Bovin, N. V., André, S., . . . Gabius, H. -J. (2016). Galectin-related protein: An integral member of the network of chicken galectins 1. From strong sequence conservation of the gene confined to vertebrates to biochemical characteristics of the chicken protein and its crystal structure. <i>Biochimica et Biophysica Acta - General Subjects</i> , 1860(10), 2285–2297. doi:10.1016/j.bbagen.2016.06.001
Journal article	Ryzhov, I. M., Korchagina, E. Y., Tuzikov, A. B., Popova, I. S., Tyrtysh, T. V., Pazynina, G. V., . . . Bovin, N. V. (2016). Function-spacer-lipid constructs of Lewis and chimeric Lewis/ABH glycans. Synthesis and use in serological studies. <i>Carbohydrate Research</i> , 435, 83–96. doi:10.1016/j.carres.2016.09.016
Journal article	Pazynina, G. V., Tsygankova, S. V., Sablina, M. A., Paramonov, A. S., Tuzikov, A. B., & Bovin, N. V. (2016). Stereo- and regioselective synthesis of spacer armed a2–6 sialooligosaccharides. <i>Mendeleev Communications</i> , 26(5), 380–382. doi:10.1016/j.mencom.2016.09.004

Journal article	Timofeeva, T. A., Sadykova, G. K., Rudneva, I. A., Boravleva, E. Y., Gambaryan, A. S., Lomakina, N. F., . . . Prilipov, A. G. (2016). Changes in the phenotypic properties of highly pathogenic influenza A virus of H5N1 subtype induced by N186I and N186T point mutations in hemagglutinin. <i>Molecular Biology</i> , 50(5), 755–761. doi:10.1134/S0026893316050174
Journal article	Ziganshina, M. M., Pavlovich, S. V., Bovin, N. V., & Sukhikh, G. T. (2016). Hyaluronic acid in vascular and immune homeostasis during normal pregnancy and preeclampsia. <i>Acta Naturae</i> , 8(3), 59–71.
Journal article	Pochechueva, T., Chinarev, A., Schoetzau, A., Fedier, A., Bovin, N. V., Hacker, N. F., . . . Heinzelmann-Schwarz, V. (2016). Blood plasma-derived anti-glycan antibodies to sialylated and sulfated glycans identify ovarian cancer patients. <i>PLoS ONE</i> , 11(10). doi:10.1371/journal.pone.0164230
Journal article	Ziganshina, M. M., Shilova, N. V., Khasbiullina, N. R., Novakovsky, M. E., Nikolaeva, M. A., Kan, N. E., . . . Sukhikh, G. T. (2016). Autoantibodies against endothelial antigens in preeclampsia. <i>Akusherstvo i Ginekologiya (Russian Federation)</i> , (3), 24–31. doi:10.18565/aig.2016.3.24–31
Journal article	Butvilovskaya, V. I., Popletaeva, S. B., Chechetkin, V. R., Zubtsova, Z. I., Tsybul'skaya, M., Samokhina, L. O., . . . Rubina, A. Y. (2016). Multiplex determination of serological signatures in the sera of colorectal cancer patients using hydrogel biochips. <i>Cancer Medicine</i> . doi:10.1002/cam4.692

### NICOLAS PRADEL

Publication Type	Citation
Journal article	"Fish, V. L., Johnson, M. D., Doeleman, S. S., Broderick, A. E., Psaltis, D., Lu, R. -S., . . . Ziurys, L. M. (2016). Persistent Asymmetric Structure of Sagittarius A* on Event Horizon Scales. <i>The Astrophysical Journal</i> , 820(2). doi:10.3847/0004-637X/820/2/90"

### NIKOLA KASABOV

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1-14. doi:10.1016/j.neunet.2015.09.011
Journal article	Liu, R., Jia, Z., Qin, X., Yang, J., & Kasabov, N. (2016). SAR Image Change Detection Method Based on Pulse-Coupled Neural Network. <i>Journal of the Indian Society of Remote Sensing</i> , 1-8. doi:10.1007/s12524-015-0507-8
Journal article	Wu, H., Gao, L., & Kasabov, N. (2016). Network-based method for inferring cancer progression at the pathway level from cross-sectional mutation data.. <i>IEEE/ACM Trans Comput Biol Bioinform.</i> doi:10.1109/TCBB.2016.2520934
Journal article	Tu, E., Kasabov, N., & Yang, J. (2016). Mapping Temporal Variables Into the NeuCube for Improved Pattern Recognition, Predictive Modeling, and Understanding of Stream Data.. <i>IEEE Trans Neural Netw Learn Syst.</i> doi:10.1109/TNNLS.2016.2536742
Conference contribution	Gholami, M., & Kasabov, N. (2016). Personalised Modelling on Integrated Clinical and EEG Spatio-Temporal Brain Data in the NeuCube Spiking Neural Network System. In Z. H. Zhou (Ed.), <i>Proceedings of the IEEE WCCI 2016</i> (pp. 1373-1378). Vancouver, Canada: IEEE.
Journal article	Tu, E., Zhang, Y., Zhu, L., Yang, J., & Kasabov, N. (2016). A graph-based semi-supervised k nearest-neighbor method for nonlinear manifold distributed data classification. <i>Information Sciences</i> , 367-368, 673-688. doi:10.1016/j.ins.2016.07.016
Journal article	Li, L., Jia, Z., Yang, J., & Kasabov, N. (2016). Noisy Remote Sensing Image Segmentation with Wavelet Shrinkage and Graph Cuts. <i>Journal of the Indian Society of Remote Sensing</i> , 1-8. doi:10.1007/s12524-016-0561-x

Conference contribution	Gholami Doborjeh, Z., Gholami, M., & Kasabov, N. (2016). Efficient recognition of attentional bias using EEG data and the NeuCube evolving Spatio-Temporal Data Machine. In International Conference on Neural Information Processing 2016 Vol. 9950 (pp. 645–653). Kyoto: Springer International Publishing AG 2016. doi:10.1007/978-3-319-46681-1-76
Conference contribution	Kawano, H., Seo, A., Gholami Doborjeh, Z., Kasabov, N., & Gholami, M. (2016). Analysis of Similarity and Differences in Brain Activities between Perception and Production of Facial Expressions Using EEG Data and the NeuCube Spiking Neural Network Architecture. In International Conference on Neural Information Processing 2016 (pp. 221–227). Kyoto, Japan: Springer International Publishing AG 2016. doi:10.1007/978-3-319-46681-1_27
Journal article	Bose, P., Kasabov, N. K., Bruzzone, L., & Hartono, R. N. (2016). Spiking Neural Networks for Crop Yield Estimation Based on Spatiotemporal Analysis of Image Time Series. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 54(11), 6563–6573. doi:10.1109/TGRS.2016.2586602
Intellectual Property	Kasabov, N., Hou, Z. -G., Feigin, V., & Chen, Y. (2016). <i>US2016/0210552 A1, Improved method and system for predicting outcomes based on spatio/spectro-temporal data</i> . USA.
Journal article	Gao, T., & Kasabov, N. (2016). Adaptive cow movement detection using evolving spiking neural network models. <i>Evolving Systems</i> , 7(4), 277–285. doi:10.1007/s12530-016-9144-x
Journal article	Cheng, Y., Jin, Z., Gao, T., Chen, H., & Kasabov, N. (2016). An improved collaborative representation based classification with regularized least square (CRC-RLS) method for robust face recognition. <i>Neurocomputing</i> , 215, 250–259. doi:10.1016/j.neucom.2015.06.117
Book	Hadjiski, M., Kasabov, N., Filev, D., & Jotsov, V. (2016). <i>Novel applications of intelligent systems</i> (Vol. 586). Switzerland: Springer. doi:10.1007/978-3-319-14194-7
Journal article	Lv, D., Jia, Z., Yang, J., & Kasabov, N. (2016). Remote sensing image enhancement based on the combination of nonsubsampling shearlet transform and guided filtering. <i>Optical Engineering</i> , 55(10). doi:10.1117/1.OE.55.10.103104
Journal article	Kasabov, N. K., Doborjeh, M. G., & Doborjeh, Z. G. (2016). Mapping, Learning, Visualization, Classification, and Understanding of fMRI Data in the NeuCube Evolving Spatiotemporal Data Machine of Spiking Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 28(4), 887–899. doi:10.1109/TNNLS.2016.2612890
Conference contribution	Abbott, A., Sengupta, N., & Kasabov, N. (2016). Which method to use for optimal structure and function representation of large spiking neural networks: A case study on the NeuCube architecture. In IJCNN 2016 (pp. 1367–1372). Vancouver, Canada. doi:10.1109/IJCNN.2016.7727357
Conference contribution	Kasabov, N., Sengupta, N., & Scott, N. (2016). From von neumann, John Atanasoff and ABC to Neuromorphic computation and the NeuCube spatio-temporal data machine. In IEEE 8th International Conference on Intelligent Systems (IS), 2016 (pp. 15–21). Sofia. doi:10.1109/IS.2016.7737434
Journal article	Gholami, M., Wang, G., Kasabov, N., Kydd, R., & Russell, B. (2016). A spiking neural network methodology and system for learning and comparative analysis of EEG data from healthy versus addiction treated versus addiction not treated subjects. <i>IEEE Transactions on Biomedical Engineering</i> , 63(9), 1830–1841. doi:10.1109/TBME.2015.2503400
Journal article	Kasabov, N., Zhou, L., Doborjeh, M., Gholami, Z., & Jie Yang. (2016). New algorithms for encoding, learning and classification of fMRI data in a spiking neural network architecture: A case on modelling and understanding of dynamic cognitive. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 99. doi:10.1109/TCDS.2016.2636291

## NOMAN YOUSUF

Publication Type	Citation
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). An experimental investigation of parallel bubble pump performance. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Performance of a cooling system driven by engine exhaust heat. In <i>Proceedings of 4th IIR Conference on Sustainability &amp; the Cold Chain</i> . Auckland: International Institute of Refrigeration. Retrieved from <a href="http://www.iifiir.org/">http://www.iifiir.org/</a>
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Predicting the pumping characteristics of multiple parallel tube air-lift pumps. In <i>The Proceedings of the 20th Australasian Fluid Mechanics Conference</i> . Perth: Australasian Fluid Mechanics Society. Retrieved from <a href="http://www.afms.org.au/">http://www.afms.org.au/</a>

## NOREEN JAMIL

Publication Type	Citation
Conference contribution	Naeem, M. A., Bajwa, I. S., & Jamil, N. (2016). A Cached-based approach to enrich Stream data with master data. In <i>The 10th International Conference on Digital Information Management, ICDIM 2015</i> (pp. 57–62). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/ICDIM.2015.7381874
Journal article	Jamil, N., Müller, J., Naeem, M. A., Lutteroth, C., & Weber, G. (2016). Extending linear relaxation for non-square matrices and soft constraints. <i>Journal of Computational and Applied Mathematics</i> , <i>308</i> , 346–360. doi:10.1016/j.cam.2016.05.006
Journal article	Naeem, M. A., Bajwa, I. S., & Jamil, N. (2016). A cached-based stream-relation join operator for semi-stream data processing. <i>International Journal of Data Warehousing and Mining (IJDWM)</i> , <i>12</i> (3), 14–31. doi:10.4018/IJDWM.2016070102

## NURUL SARKAR

Publication Type	Citation
Chapter or section in books	Sarkar, N. (2016). Teaching Wireless Network Fundamentals using Low-Cost Wi-Fi Devices. In M. S. Raisinghani (Ed.), <i>Revolutionizing Education through Web-Based Instruction</i> (pp. 283–302). Hershey PA: IGI Global.
Journal article	Sarkar, N. I., Qi, R., & Hossain, A. (2016). Performance Studies of FTP, Voice and Video over ATM-Wireless Backbone Network. <i>International Journal of Advanced Pervasive and Ubiquitous Computing</i> , <i>7</i> (3), 38–54. doi:10.4018/IJAPUC.2015070104
Journal article	Jarrah, H., Sarkar, N. I., & Gutierrez, J. (2016). Comparison-Based System-Level Fault Diagnosis Protocols for Mobile Ad-Hoc Networks: A Survey. <i>Journal of Network and Computer Applications</i> , <i>60</i> , 68–81. doi:10.1016/j.jnca.2015.12.002
Journal article	Zhao, H., Wei, J., Sarkar, N. I., & Huang, S. (2016). E-MAC: An Evolutionary Solution for Collision Avoidance in Wireless Ad Hoc Networks. <i>Journal of Network and Computer Applications</i> , <i>65</i> (1), 1–11. doi:10.1016/j.jnca.2016.02.010
Journal article	Memon, S. K., Sarkar, N. I., & Al-Anbuky, A. (2016). Multiple preemptive EDCA for emergency medium access control in distributed WLANs. <i>Wireless Networks</i> , <i>22</i> (2), 1–12. doi:10.1007/s11276-016-1236-9
Journal article	Sarkar, N. I., Zhang, C., & Park, J. -H. (2016). Guest Editorial: Special Issue on CECNet 2014. <i>Journal of Internet Technology</i> , <i>17</i> (2), 369–370. Retrieved from <a href="http://jit.niu.edu.tw/">http://jit.niu.edu.tw/</a>
Other form of output	Sarkar, N. I. (2016). Professional Development and Networking through the IEEE DL Program and Workshops in New Zealand. (Iss. April, pp. 2–4). [English]. IEEE Communications Society. Retrieved from <a href="http://www.comsoc.org/gcn">http://www.comsoc.org/gcn</a>

Oral presentation	Sarkar, N. I. (2016). <i>A PhD Journey: From a Proposal to Congratulations! A panel discussion</i> . AUT.
Conference contribution	Ndashimye, E., Sarkar, N. I., & Ray, S. K. (2016). A Novel Network Selection Mechanism for Vehicle-to-Infrastructure Communication. In the 14th IEEE International Conference on Pervasive Intelligence and Computing (PICom 2016) (pp. 483-488). Auckland: IEEE Computer Society. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.94
Other form of output	Sarkar, N. I. (2016). Community Development Opportunity Through IEEE ComSoc Workshops in New Zealand. S. Bregni (Ed.), (Iss. July, pp. 2-4). [English]. USA: IEEE Communications Society. Retrieved from <a href="http://www.comsoc.org/pubs/gcn/">http://www.comsoc.org/pubs/gcn/</a>
Journal article	Wang, X., Ge, T., Wang, Y., Li, Z., & Sarkar, N. I. (2016). QC-LDPC Encoder Structure for IEEE 802.16e/802.11n Standard. <i>International Journal of Control and Automation</i> , 9(7), 273-280. doi:10.14257/ijca.2016.9.7.25
Conference contribution	Sarkar, N. I., Wang, X., & Li, J. (2016). Evaluating intelligent search agents in a controlled environment using complex queries: An empirical study. In 11th Chinese Conference on Computer Supported Cooperative Work (CCSCW2016) (pp. 1-18). Hangzhou, Zhejiang Province, China. Retrieved from <a href="http://www.ccfccsw.cn/">http://www.ccfccsw.cn/</a>
Conference contribution	Mahiddin, N. A., & Sarkar, N. I. (2016). Optimizing the Throughput for Gateway Selection Scheme of MANET in Disaster Recovery Area. In 18th International Conference on High Performance Computing and Communications (pp. 907-912). Sydney, Australia: IEEE Computer Society. doi:10.1109/HPCC-SmartCity-DSS.2016.13
Conference contribution	Jarrah, H., Chong, P., Sarkar, N. I., & Gutierrez, J. (2016). A Time-Free Comparison-Based System-Level Fault Diagnostic Model for Highly Dynamic Networks. In <i>Proceedings of the 11th International Conference on Queuing Theory and Networking Applications (QTNA 2016)</i> . Wellington, New Zealand.
Conference contribution	Sarkar, N. I. (2016). Invited conference speech - Factors Influencing the Performance of Wireless Local Area Networks. In <i>19th International Conference on Computer and Information Technology (ICCIT 2016)</i> . Dhaka, Bangladesh: IEEE.
Journal article	Gul, S., Sarkar, N. I., & Gutierrez, J. (2016). A review of New Zealand Telecommunications: Legislation, Regulations, and Recommendations. <i>Australian Journal of Telecommunications and the Digital Economy</i> , 4(4), 172-195. doi:10.18080/ajtde.v4n4.70

## PETER HAN JOO CHONG

Publication Type	Citation
Journal article	Cheung, T. -L., Hong, L., Rao, N., Yang, C., Wang, L., Lai, W. J., . . . Yong, K. -T. (2016). The non-aqueous synthesis of shape controllable Cu <sub>2</sub> -xS plasmonic nanostructures in a continuous-flow millifluidic chip for the generation of photo-induced heating. <i>Nanoscale</i> , 8(12), 6609-6622. doi:10.1039/c5nr09144f
Conference contribution	Yang, H., Seet, B. -C., Hasan, S. F., Chong, P. H. J., & Chung, M. Y. (2016). Radio resource allocation for D2D-enabled massive machine communication in the 5G era. In IEEE Cyber Science and Technology Congress (CyberSciTech) (pp. 6 pages). USA: IEEE. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.24
Journal article	Xie, L. F., Chong, P. H. J., Ho, I. W. -H., & Chan, H. C. B. (2016). Virtual overhearing: An effective way to increase network coding opportunities in wireless ad-hoc networks. <i>Computer Networks</i> , 105, 111-123. doi:10.1016/j.comnet.2016.05.023
Journal article	Yang, C., Panwar, N., Wang, Y., Zhang, B., Liu, M., Toh, H., . . . Yong, K. -T. (2016). Biodegradable charged polyester-based vectors (BCPVs) as an efficient non-viral transfection nanoagent for gene knockdown of the BCR-ABL hybrid oncogene in a human chronic myeloid leukemia cell line. <i>Nanoscale</i> , 8(17), 9405-9416. doi:10.1039/c6nr00996d

Journal article	Nawaz Ali, G. G. M., Chong, P. H. J., Samantha, S. K., & Chan, E. (2016). Efficient data dissemination in cooperative multi-RSU Vehicular Ad Hoc Networks (VANETs). <i>Journal of Systems and Software</i> , 117, 508-527. doi:10.1016/j.jss.2016.04.005
Journal article	Xu, X., Praveen Kumar, M. S. G., Guan, Y. L., & Chong, P. H. J. (2016). Two-Phase Cooperative Broadcasting Based on Batched Network Code. <i>IEEE Transactions on Communications</i> , 64(2), 706-714. doi:10.1109/TCOMM.2015.2512584
Conference contribution	Murkaz, A., Hussain, R., Hasan, S. F., Chung, M. Y., Seet, B. -C., Chong, P. H. J., . . . Malik, S. A. (2016). Architecture and protocols for inter-cell device-to-device communication in 5G networks. In 14th IEEE International Conference on Pervasive, Intelligence and Computing (pp. 4 pages). Auckland, New Zealand: IEEE. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.95
Journal article	Afshang, M., Dhillon, H. S., & Chong, P. H. J. (2016). Fundamentals of Cluster-Centric Content Placement in Cache-Enabled Device-to-Device Networks. <i>IEEE Transactions on Communications</i> , 64(6), 2511-2526. doi:10.1109/TCOMM.2016.2554547
Journal article	Afshang, M., Dhillon, H. S., & Chong, P. H. J. (2016). Modeling and performance analysis of clustered device-to-device networks. <i>IEEE Transactions on Wireless Communications</i> , 15(7), 4957-4972. doi:10.1109/TWC.2016.2550024
Journal article	Zhao, M., Kumar, A., Chong, P. H. J., & Lu, R. (2016). A comprehensive study of RPL and P2P-RPL routing protocols: Implementation, challenges and opportunities. <i>Peer-to-Peer Networking and Applications</i> , 1-25. doi:10.1007/s12083-016-0475-y
Conference contribution	Aung, C. Y., Ali, G. G. M. N., Zhao, M., Cai, R., & Chong, P. H. J. (2016). Information epidemics control for data delivery in opportunistic networks. In 2016 IEEE International Conference on Communications, ICC 2016. Kuala Lumpur, Malaysia: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/ICC.2016.7510978
Journal article	Mohd Nawaz Ali, G. G., Mollah, M. A. S., Samantha, S. K., Chong, P. H. J., & Guan, Y. L. (2016). On striking the balance between the fairness of service and throughput in roadside units based vehicular ad hoc networks. <i>International Journal of Vehicle Autonomous Systems</i> , 13(2), 168-187. doi:10.1504/IJVAS.2016.078812
Journal article	Yazdanshenasan, Z., Dhillon, H., Afshang, M., & Chong, P. H. J. (2016). Poisson hole process: Theory and applications to wireless networks. <i>IEEE Transactions on Wireless Communications</i> , PP(99). doi:10.1109/TWC.2016.2604799
Journal article	Shwe, H. Y., Kumar, A., & Chong, P. H. J. (2016). Building efficient multi-level wireless sensor networks with cluster-based routing protocol. <i>KSII Transactions on Internet and Information Systems</i> , 10(9), 4272-4286. doi:10.3837/tiis.2016.09.014
Conference contribution	Jarrah, H., Chong, P., Sarkar, N. I., & Gutierrez, J. (2016). A Time-Free Comparison-Based System-Level Fault Diagnostic Model for Highly Dynamic Networks. In <i>Proceedings of the 11th International Conference on Queuing Theory and Networking Applications (QTNA 2016)</i> . Wellington, New Zealand.
Journal article	Tan, H. C., Ma, M., Labiod, H., Chong, P. H. J., & Zhang, J. (2016). A non-biased trust model for wireless mesh networks. <i>International Journal of Communication Systems</i> . doi:10.1002/dac.3200
Journal article	Zhao, M., Chong, P. H. J., & Chan, H. C. B. (2016). An energy-efficient and cluster-parent based RPL with power-level refinement for low-power and lossy networks. <i>Computer Communications</i> . doi:10.1016/j.comcom.2016.10.007
Conference contribution	Aung, C. Y., Ali, G. G. M. N., & Chong, P. H. J. (2016). Cluster-based cooperative data forwarding with multi-radio multi-channel for multi-flow wireless networks. <i>KSII Transactions on Internet and Information Systems</i> , 10(12), 5149-5173. doi:10.3837/tiis.2016.12.002

PETER HOOPER	
Publication Type	Citation
Journal article	Hooper, P. (2016). Low Cost Possibilities for Automotive Range-Extender/Hybrid Electric Vehicles to achieve low CO2 and NVH Objectives. <i>SAE International</i> . doi:10.4271/2016-01-1841
PEYMAN SABOURI	
Publication Type	Citation
Conference contribution	Sabouri, P., & Gholamhosseini, H. (2016). Lesion border detection using deep learning. In <i>IEEE Congress on Computational Intelligence (IEEE WCCI)</i> . Vancouver, Canada. doi:10.1109/CEC.2016.7743955
PHILIP CARTER	
Publication Type	Citation
Chapter or section in books	Carter, P. (2016). The human-computer relationship: Who shall survive?. In N. Dalal, A. Intezari, & M. Heitz (Eds.), <i>Practical wisdom in the age of technology: Insights, issues, and questions for a new millennium</i> (pp. 118-129). London: Routledge. Retrieved from <a href="https://www.routledge.com/">https://www.routledge.com/</a>
Journal article	Feather, J. S., Howson, M., Ritchie, L., Carter, P. D., Parry, D. T., & Koziol-McLain, J. (2016). Evaluation methods for assessing users' psychological experiences of web-based psychosocial interventions: A systematic review. <i>Journal of Medical Internet Research</i> , 18(6), e181. doi:10.2196/jmir.5455
Conference contribution	Carter, P. (2016). Interpersonal Neurobiology, Phantom Limbs, Mirroring and the Social Self Schema. In <i>AANZPA Conference</i> . Sydney, Australia. Retrieved from <a href="http://confer16.aanzpa.org/conference-sessions/">http://confer16.aanzpa.org/conference-sessions/</a>
PHILIP SALLIS	
Publication Type	Citation
Conference contribution	Bassey, E., Sallis, P., & Prasad, K. (2016). Analysis of Methanol Sensitivity on SnO <sub>2</sub> -ZnO Nanocomposite. In <i>2016 Annual Meeting and Exhibition of The Mineral, Metal and Materials Society (TMS2016)</i> . Nashville, USA.
Conference contribution	Sallis, P., Whalley, J., Michael-Agwuoke, M., & Chile, L. (2016). Expanding the horizon of waste data mapping and collection. In <i>WMSymposia 2016</i> (pp. 103). Phoenix, Arizona, USA: wmsym.org. Retrieved from <a href="http://www.xcdsystem.com/wmsym/program2016/ProgramBook.cfm">http://www.xcdsystem.com/wmsym/program2016/ProgramBook.cfm</a>
Conference contribution	Ghobakhlou, A., Wang, X., Sallis, P., Inder, S., & Blok, S. (2016). Using WSN for possum management. In <i>Proceedings of the International Conference on Sensing Technology, ICST Vol. 2016-March</i> (pp. 689-693). IEEE Computer Society. doi:10.1109/ICSensT.2015.7438485
Conference contribution	Ghobakhlou, A., Amir, F., & Sallis, P. (2016). Leaf wetness sensors - A comparative analysis. In <i>Proceedings of the International Conference on Sensing Technology, ICST Vol. 2016-March</i> (pp. 420-424). Auckland, New Zealand. doi:10.1109/ICSensT.2015.7438434
Software / Code	Claster, W., Sallis, P., & Nhat, C. (2016). AEDForecasting: Change Point Analysis in ARIMA Forecasting (Version 0.20.0) [Computer Software]. CRAN. Retrieved from <a href="https://cran.r-project.org/package=AEDForecasting">https://cran.r-project.org/package=AEDForecasting</a>
Journal article	Whalley, J., Sallis, P., & Bassey, E. (2016). Approaches to Cleaning Gas Response Signals from Metal Oxide Sensors: Optimisation and Generalizability. <i>International Journal on Advances in Systems and Measurements</i> , 9(1&2), 12-23. Retrieved from <a href="http://www.ariajournals.org/systems_and_measurements/">http://www.ariajournals.org/systems_and_measurements/</a>
Book	Sallis. (2016). <i>Air Quality - Measurement and Modeling</i> . Sallis (Ed.), Intech. Retrieved from <a href="http://www.intechopen.com/books/air-quality-measurement-and-modeling">http://www.intechopen.com/books/air-quality-measurement-and-modeling</a>

Chapter or section in books	Bassey, E. E., Sallis, P., & Prasad, K. (2016). Analysis of methanol sensitivity on SnO <sub>2</sub> /ZnO nanocomposite. In <i>Characterization of Minerals, Metals, and Materials 2016</i> (pp. 287–291). doi:10.1007/978-3-319-48210-1_35
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## RAVICHANDRA KULKARNI

Publication Type	Citation
Conference contribution	Kulkarni, R., Prasad, K., Lie, T. T., Badcock, R. A., & Bumby, C. W. (2016). FEM and performance analysis of 10 kW HTS generator with flux pump excitation. In <i>Power System Technology (POWERCON), 2016 IEEE International Conference on</i> (pp. 1–6). Wollongong, Australia: IEEE. <a href="http://ieeexplore.ieee.org/">http://ieeexplore.ieee.org/</a> . doi:10.1109/POWERCON.2016.7753913

## REGGIO HARTONO

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecchi, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1–14. doi:10.1016/j.neunet.2015.09.011
Conference contribution	Usman, A., Liu, W., Bai, Q., & Narayanan, A. (2016). Exploring the Role of Structural Similarity in Securing Smart Metering Infrastructure. In <i>2015 IEEE IEEE International Conference on Data Science and Data Intensive Systems</i> (pp. 343–349). Sydney, Australia: IEEE DSDIS Proceedings. doi:10.1109/DSDIS.2015.95
Conference contribution	Nguyen, T. D., & Bai, Q. (2016). Trust Management for Composite Services in Distributed Multi-agent Systems with Indirect Ratings: (Extended Abstract).. In C. M. Jonker, S. Marsella, J. Thangarajah, & K. Tuyls (Eds.), <i>AAMAS</i> (pp. 1295–1296). ACM. Retrieved from <a href="http://dl.acm.org/citation.cfm?id=2936924">http://dl.acm.org/citation.cfm?id=2936924</a>
Journal article	Su, X., Zhang, M., & Bai, Q. (2016). Coordination for dynamic weighted task allocation in disaster environments with time, space and communication constraints. <i>Journal of Parallel and Distributed Computing</i> , 97, 47–56. doi:10.1016/j.jpdc.2016.06.010
Journal article	Niu, L., Ren, F., Zhang, M., & Bai, Q. (2016). A Concurrent Multiple Negotiation Protocol Based on Colored Petri Nets. <i>IEEE Transactions on Cybernetics</i> , 1–14. doi:10.1109/TCYB.2016.2577635
Journal article	Xiang, M., Liu, W., & Bai, Q. (2016). A fuzzy logic-based sustainable and trusted routing for P2P enabled smart grid. <i>International Journal of Computational Science and Engineering</i> , 13(2), 165–174. doi:10.1504/IJCSE.2016.078445
Conference contribution	Barati, M., Bai, Q., & Liu, Q. (2016). SWARM: An approach for mining semantic association rules from semantic web data. In R. Booth, & M. L. Zhang (Eds.), <i>PRICAI 2016: Trends in Artificial Intelligence. PRICAI 2016. Lecture Notes in Computer Science Vol. 9810</i> (pp. 30–43). Springer Verlag. doi:10.1007/978-3-319-42911-3_3
Chapter or section in books	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). Dynamic Trust Elective Geo Routing to Secure Smart Grid Communication Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 323–343). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch014
Journal article	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). The critical role of structural hole in forming trust for Securing Wireless Sensor Networks. <i>International Journal of Information, Communication Technology and Applications</i> , 2(1), 66. doi:10.17972/ijicta20162127

## RAMON ZAMORA

Publication Type	Citation
Journal article	Zamora, R., & Srivastava, A. K. (2016). Multi-Layer Architecture for Voltage and Frequency Control in Networked Microgrids. <i>IEEE Transactions on Smart Grid</i> , PP(99). doi:10.1109/TSG.2016.2606460

## REINHARD KLETTE

Publication Type	Citation
Journal article	Liu, D., & Klette, R. (2016). Fog effect for photography using stereo vision. <i>Visual Computer</i> . doi:10.1007/s00371-014-1058-7
Conference contribution	Geng, H., Chien, H. -J., & Klette, R. (2016). Multi-run: An approach for filling in missing information of 3D roadside reconstruction. In F. Huang, & A. Sugimoto (Eds.), <i>Image and Video Technology – PSIVT 2015 Workshops Vol. 9555</i> (pp. 192-205). Springer Verlag. doi:10.1007/978-3-319-30285-0_16
Journal article	Liu, D., Nicolescu, R., & Klette, R. (2016). Stereo-based bokeh effects for photography. <i>Machine Vision and Applications</i> , 1-13. doi:10.1007/s00138-016-0775-5
Journal article	Tao, J., Franke, U., & Klette, R. (2016). Context-based multi-target tracking with occlusion handling. <i>Machine Vision and Applications</i> , 27(8), 1339-1349. doi:10.1007/s00138-016-0770-x
Journal article	Liu, D., Geng, H., Liu, T., & Klette, R. (2016). Star-effect simulation for photography. <i>Computers and Graphics (Pergamon)</i> , 61, 19-28. doi:10.1016/j.cag.2016.08.010
Journal article	Xu, Z., Shin, B. -S., & Klette, R. (2016). Erratum: Corrigendum to “Closed form line-segment extraction using the Hough transform” (Pattern Recognition (2015) 48(12) (4012-4023) (S0031320315002307)(10.1016/j.patcog.2015.06.008)). <i>Pattern Recognition</i> , 60, 647. doi:10.1016/j.patcog.2016.06.015
Book	Tao, J., & Klette, R. (2016). <i>Multi-target tracking: From Drosophila melanogaster to pedestrians</i> . Germany: Lambert Academic Publishing. Retrieved from <a href="http://www.ebay.de/">http://www.ebay.de/</a>
Conference contribution	Chien, H., Klette, R., Schneider, N., & Franke, U. (2016). Visual odometry driven online calibration for monocular LiDAR-camera systems. In <i>ICPR</i> . Cancun, Mexico: IEEE. Retrieved from <a href="http://www.icpr2016.org/site/full-program/">http://www.icpr2016.org/site/full-program/</a>
Conference contribution	Ahmed, J., & Klette, R. (2016). Coupled directionally structured dictionaries for single image super-resolution. In <i>ICPR</i> . Cancun, Mexico: IEEE. Retrieved from <a href="http://www.icpr2016.org/site/full-program/">http://www.icpr2016.org/site/full-program/</a>
Journal article	Song, R., Chen, H., Xiao, Z., Xu, Y., & Klette, R. (2016). Lane Detection Algorithm Based on Geometric Moment Sampling. <i>SCIENTIA SINICA Informationis</i> . doi:10.1360/N112016-00174
Conference contribution	Al-Sarayreh, M., Moayed, Z., Bollard-Breen, B., Ramond, J., & Klette, R. (2016). Detection and spatial analysis of fairy circles. In <i>IVCNZ 2016</i> . Palmerston North: IEEE. doi:10.1109/IVCNZ.2016.7804457
Conference contribution	Chien, H., Chuang, C., Chen, C., & Klette, R. (2016). When to use what feature? SIFT, SURF, ORB, or A-KAZE features for monocular visual odometry. In <i>IVCNZ 2016</i> (pp. 6 pages). Palmerston North: IEEE. doi:10.1109/IVCNZ.2016.7804434
Conference contribution	Saleem, N., & Klette, R. (2016). Accuracy of free-space detection: Monocular versus binocular vision. In <i>IVCNZ 2016</i> . Palmerston North: IEEE.
Conference contribution	Gu, Q., Yang, J., Cui, G., Kong, L., Zheng, H., & Klette, R. (2016). Multi-scale vehicle logo recognition by directional dense SIFT flow parsing. In <i>Proceedings – International Conference on Image Processing, ICIP Vol. 2016–August</i> (pp. 3827-3831). Phoenix, Arizona: IEEE Computer Society. doi:10.1109/ICIP.2016.7533076

## REZA ENAYATOLLAHI

Publication Type	Citation
Conference contribution	Enayatollahi, R., Nates, R., & Anderson, T. (2016). Falling Liquid Sheets with Gas Cross-Flow. In <i>Fluids in New Zealand</i> . Auckland.

## ROBIN HANKIN

Publication Type	Citation
Journal article	White, D. E., Bartley, J., Shakeel, M., Nates, R. J., & Hankin, R. K. S. (2016). Nasal airway responses to nasal continuous positive airway pressure breathing: An in-vivo pilot study. <i>Journal of Biomechanics</i> , 49(9), 1887-1890. doi:10.1016/j.jbiomech.2016.04.034
Chapter or section in books	Hankin, R. (2016). Screencasts in mathematics: Modelling the mathematician. In L. Chao (Ed.), <i>Handbook of Research on Cloud-Based STEM Education for Improved Learning Outcomes</i> (pp. 218-224). IGI Global. doi:10.4018/978-1-4666-9924-3.ch014
Chapter or section in books	De Villiers, R., Hankin, R., & Woodside, A. (2016). Making decisions well and badly: How stakeholders' discussions influence individual executives' decision confidence and competence. In A. Woodside (Ed.), <i>Making tough decisions well and badly: Framing, deciding, implementing, assessing</i> ( <i>Advances in Business Marketing and Purchasing, Volume 24</i> ) (Vol. 24, pp. 87-116). Emerald Group Publishing Limited. doi:10.1108/S1069-096420160000024006

## ROOHOLLAH KALATEHJARI

Publication Type	Citation
Journal article	Nasroulla, N. A., Rashid, A. S. A., Kalatehjari, R., Kassim, K. A., Noor, N. M., & Horpibulsuk, S. (2016). Determination of liquid limit of a low swelling clay using different cone angles. <i>Applied Clay Science</i> , 132-133, 748-752. doi:10.1016/j.clay.2016.06.026

## ROOPAK SINHA

Publication Type	Citation
Conference contribution	Afifi, S., GholamHosseini, H., & Sinha, R. (2016). Hardware Acceleration of SVM-Based Classifier for Melanoma Images. In F. Huang, & A. Sugimoto (Eds.), <i>Image and Video Technology – PSIVT 2015 Workshops. PSIVT 2015. Lecture Notes in Computer Science Vol. 9555</i> (pp. 235-245). Springer International Publishing. doi:10.1007/978-3-319-30285-0_19
Journal article	Bhatti, Z. E., Roop, P. S., & Sinha, R. (2016). Unified functional safety assessment of industrial automation systems. <i>IEEE Transactions on Industrial Informatics</i> , 3(1), 17-26. doi:10.1109/TII.2016.2610185
Conference contribution	Afifi, S., Gholamhosseini, H., & Sinha, R. (2016). A low-cost FPGA-based SVM classifier for melanoma detection. In L. Y. Khuan (Ed.), <i>IEEE-EMBS Conference on Biomedical Engineering and Sciences</i> . Kuala Lumpur, Malaysia. doi:10.1109/IECBES.2016.7843526
Conference contribution	Hossain, A., Ray, S. K., & Sinha, R. (2016). A smartphone-assisted post-disaster victim localization method. In C. Leung (Ed.), <i>18th IEEE International Conference on High Performance Computing and Communications</i> . Sydney, Australia.

## ROY NATES

Publication Type	Citation
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). An experimental investigation of parallel bubble pump performance. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Uzair, M., Anderson, T., & Nates, R. (2016). Air flow around a parabolic dish solar concentrator. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Enayatollahi, R., Nates, R., & Anderson, T. (2016). Falling Liquid Sheets with Gas Cross-Flow. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Performance of a cooling system driven by engine exhaust heat. In <i>Proceedings of 4th IIR Conference on Sustainability &amp; the Cold Chain</i> . Auckland: International Institute of Refrigeration. Retrieved from <a href="http://www.iifir.org/">http://www.iifir.org/</a>

Journal article	White, D. E., Bartley, J., Shakeel, M., Nates, R. J., & Hankin, R. K. S. (2016). Nasal airway responses to nasal continuous positive airway pressure breathing: An in-vivo pilot study. <i>Journal of Biomechanics</i> , 49(9), 1887-1890. doi:10.1016/j.jbiomech.2016.04.034
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Predicting the pumping characteristics of multiple parallel tube air-lift pumps. In <i>The Proceedings of the 20th Australasian Fluid Mechanics Conference</i> . Perth: Australasian Fluid Mechanics Society. Retrieved from <a href="http://www.afms.org.au/">http://www.afms.org.au/</a>
Conference contribution	Rehman, N., Anderson, T., & Nates, R. (2016). Solar Potential Assessment of Facades in an Urban Context: An Algorithm for 1.5D Digital Surface Models. In R. Egan, & R. Passey (Eds.), <i>Proceedings of the Asia Pacific Solar Research Conference 2016</i> . Canberra: Australian PV Institute. Retrieved from <a href="http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/">http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/</a>
Conference contribution	Uzair, M., Anderson, T., & Nates, R. (2016). Impact of dish structure on the convective heat loss from a parabolic dish solar cavity receiver. In R. Egan, & R. Passey (Eds.), <i>Proceedings of the Asia Pacific Solar Research Conference 2016</i> . Canberra: Australian PV Institute. Retrieved from <a href="http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/">http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/</a>

### RUSSEL PEARS

Publication Type	Citation
Journal article	Sakthithasan, S., & Pears, R. (2016). Capturing recurring concepts using discrete Fourier transform. <i>Concurrency Computation</i> . doi:10.1002/cpe.3784
Conference contribution	Kithulgoda, C., & Pears, R. (2016). Staged Online Learning: A new approach to classification in high speed data streams. In <i>Proceedings of 2016 International Joint Conference on Neural Networks (IJCNN)</i> . IEEE Xplore. doi:10.1109/IJCNN.2016.7727173
Chapter or section in books	Tauch, S., Liu, W., & Pears, R. (2016). Measuring Cascading Failures in Smart Grid Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 208-225). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch009

### SAMANEH MADANIAN

Publication Type	Citation
Conference contribution	Madanian, S. (2016). The use of e-health technology in healthcare environment: The role of RFID technology. In <i>10th International Conference on e-Commerce in Developing Countries: With Focus on e-Tourism, ECDC 2016</i> . Isfahan, Iran: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/ECDC.2016.7492974
Conference contribution	Parry, D., Madanian, S., & Norris, T. (2016). Disaster EHealth-Sustainability in the Extreme. In <i>Proceedings - 2016 IEEE 14th International Conference on Dependable, Autonomic and Secure Computing, DASC 2016, 2016 IEEE 14th International Conference on Pervasive Intelligence and Computing, PICom 2016, 2016 IEEE 2nd International Conference on Big Data Intelligence and Computing, DataCom 2016 and 2016 IEEE Cyber Science and Technology Congress, CyberSciTech 2016, DASC-PICom-DataCom-CyberSciTech 2016</i> (pp. 943-946). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/DASC-PICom-DataCom-CyberSciTec.2016.162

### SARAT SINGAMNENI

Publication Type	Citation
Journal article	Davidson, K. P., & Singamneni, S. (2016). Magnetic Characterization of Selective Laser-Melted Saf 2507 Duplex Stainless Steel. <i>JOM</i> , 1-6. doi:10.1007/s11837-016-2193-6

## SERGEI GULYAEV

Publication Type	Citation
Journal article	Kasabov, N., Scott, N., Tu, E., Marks, S., Sengupta, N., Capecci, E., . . . Yang, J. (2016). Evolving spatio-temporal data machines based on the NeuCube neuromorphic framework: Design methodology and selected applications. <i>Neural Networks</i> , 78, 1–14. doi:10.1016/j.neunet.2015.09.011
Journal article	Kadler, M., et al., Gulyaev, S., Natusch, T., Weston, S., & et al.. (2016). Coincidence of a high-fluence blazar outburst with a PeV-energy neutrino event. <i>Nature Physics</i> , 8 pages. doi:10.1038/nphys3715
Journal article	KrauB, F., Wilms, J., Kadler, M., Ojha, R., Schulz, R., Trüstedt, J., . . . Weston, S. (2016). The TANAMI Multiwavelength Program: Dynamic SEDs of Southern Blazars. <i>Astronomy and Astrophysics</i> , 591, 26 pages. doi:10.1051/0004-6361/201628595
Journal article	Plank, L., Lovell, J., MacCallum, J., Mayer, D., Reynolds, C., Quick, J., . . . Gulyaev, S. (2016). The AUSTRAL VLBI observing program. <i>Journal of Geodesy</i> . doi:10.1007/s00190-016-0949-y
Journal article	Gulyaev, S., Natusch, T., & Weston, S. (2016). Planetary Radio Interferometry and Doppler Experiment (PRIDE) technique: A test case of the Mars Express Phobos fly-by. <i>Astronomy and Astrophysics</i> , 593. doi:10.1051/0004-6361/201628869
Journal article	Weston, S., Plank, L., Lovell, J., McCallum, J., Mayer, D., Reynolds, C., . . . Gulyaev, S. (2016). The AUSTRAL VLBI observing program. <i>Journal of Geodesy</i> .

## SERGIY KLYMCHUK

Publication Type	Citation
Journal article	Klymchuk, S., & Jovanoski, Z. (2016). Analysing university students' abilities in making assumptions in a ballistics model: A case study. <i>Mathematics Teaching Research Journal Online</i> , 8(1–2), 12 pages. Retrieved from <a href="http://www.hostos.cuny.edu/mtrj/archives/volume8/issue12/volume8issue12full.pdf">http://www.hostos.cuny.edu/mtrj/archives/volume8/issue12/volume8issue12full.pdf</a>
Conference contribution	Klymchuk, S., & Evans, T. (2016). Enhancing generic thinking skills of tertiary STEM students through puzzle-based learning. In <i>Ako Aotearoa Northern and Central Hub's Projects Colloquium</i> (pp. 10). Auckland, New Zealand: Ako Aotearoa National Centre for Tertiary Teaching Excellence.
Conference contribution	Klymchuk, S. (2016). Enhancing general thinking skills through puzzles, paradoxes and sophisms: Engineering students' perspectives. In <i>Online proceedings of the 3rd Mathematics Education and Contemporary Theories conference (MECT-3)</i> (pp. 9 pages). Manchester, UK: Manchester Metropolitan University. Retrieved from <a href="http://www.esri.mmu.ac.uk/mect3/papers-list.php">http://www.esri.mmu.ac.uk/mect3/papers-list.php</a>
Conference contribution	Klymchuk, S. (2016). Using counterexamples, puzzles and provocations in the teaching and learning of calculus. In <i>13th International Congress on Mathematical Education (ICME-13)</i> . Hamburg, Germany.
Conference contribution	Klymchuk, S. (2016). Attention and provocative questions in mathematics. In <i>Discussion Group "Mathematics teacher noticing" at the 13th International Congress on Mathematical Education (ICME-13)</i> . Hamburg, Germany.
Oral presentation	Klymchuk, S. (2016). <i>Counterexamples in calculus as a pedagogical strategy</i> . Centre for Research, Innovation and Coordination of Mathematics Teaching of the University of Agder, Norway.
Oral presentation	Klymchuk, S. (2016). <i>Different Contexts in Teaching Mathematical Modelling and Applications to Engineering Students: Students' Attitudes and Difficulties</i> . Centre for Research, Innovation and Coordination of Mathematics Teaching of the University of Agder, Norway.
Oral presentation	Klymchuk, S. (2016). <i>Provocative mathematics questions: Drawing attention to a lack of attention</i> . Centre for Research, Innovation and Coordination of Mathematics Teaching of the University of Agder, Norway.

Oral presentation	Klymchuk, S. (2016). <i>Enhancing Engineering Students' Generic Thinking Skills through Puzzles, Paradoxes and Sophisms</i> . Centre for Research, Innovation and Coordination of Mathematics Teaching of the University of Agder, Norway.
Oral presentation	Klymchuk, S. (2016). <i>Using counterexamples, puzzles and provocative questions as a pedagogical strategy to engage secondary mathematics learners</i> . Academy of Singapore Teachers, Singapore.
Conference contribution	Klymchuk, S. (2016). Puzzles, paradoxes and provocations in calculus. In <i>Auckland Mathematical Association Mathematics and Calculus Teachers' Day Programme</i> (pp. 7-8). Auckland, New Zealand.
Oral presentation	Klymchuk, S. (2016). <i>Enhancing engineering students' generic thinking skills through puzzles, paradoxes and sophisms</i> . Auckland University of Technology, New Zealand.

### SHEREEN AFIFI

Publication Type	Citation
Conference contribution	Afifi, S., GholamHosseini, H., & Sinha, R. (2016). Hardware Acceleration of SVM-Based Classifier for Melanoma Images. In F. Huang, & A. Sugimoto (Eds.), <i>Image and Video Technology – PSIVT 2015 Workshops. PSIVT 2015. Lecture Notes in Computer Science Vol. 9555</i> (pp. 235-245). Springer International Publishing. doi:10.1007/978-3-319-30285-0_19
Conference contribution	Afifi, S., Gholamhosseini, H., & Sinha, R. (2016). A low-cost FPGA-based SVM classifier for melanoma detection. In L. Y. Khuan (Ed.), <i>IEEE-EMBS Conference on Biomedical Engineering and Sciences</i> . Kuala Lumpur, Malaysia. doi:10.1109/IECBES.2016.7843526

### SHERIF BESKHYROUN

Publication Type	Citation
Journal article	Chen, G. -W., Beskhyroun, S., & Omenzetter, P. (2016). Experimental investigation into amplitude-dependent modal properties of an eleven-span motorway bridge. <i>Engineering Structures</i> , 107, 80-100. doi:10.1016/j.engstruct.2015.11.002
Journal article	Shafiei, S., Melville, B. W., Shamseldin, A. Y., Adams, K. N., & Beskhyroun, S. (2016). Experimental investigation of tsunami-borne debris impact force on structures: Factors affecting impulse-momentum formula. <i>Ocean Engineering</i> , 127, 158-169. doi:10.1016/j.oceaneng.2016.09.008

### SHUAIB MEMON

Publication Type	Citation
Journal article	Memon, S. K., Sarkar, N. I., & Al-Anbuky, A. (2016). Multiple preemptive EDCA for emergency medium access control in distributed WLANs. <i>Wireless Networks</i> , 22(2), 1-12. doi:10.1007/s11276-016-1236-9

### SIRA YONGCHAREON

Publication Type	Citation
Conference contribution	Ngamakeur, K., Yongchareon, S., Liesaputra, V., Liu, C., & Yu, J. (2016). An Artifact-Centric Business Process Execution Platform. In R. Dijkman, L. F. Pires, & S. Rinderle-Ma (Eds.), <i>Enterprise Distributed Object Computing Workshop (EDOCW), 2016 IEEE 20th International</i> . IEEE. doi:10.1109/EDOCW.2016.7584344
Journal article	Xu, J., Liu, C., Zhao, X., Yongchareon, S., & Ding, Z. (2016). Resource management for business process scheduling in the presence of availability constraints. <i>ACM Transactions on Management Information Systems</i> , 7(3). doi:10.1145/2990197

## SONIA GUL

Publication Type	Citation
Journal article	Gul, S., Sarkar, N. I., & Gutierrez, J. (2016). A review of New Zealand Telecommunications: Legislation, Regulations, and Recommendations. <i>Australian Journal of Telecommunications and the Digital Economy</i> , 4(4), 172–195. doi:10.18080/ajtde.v4n4.70

## SOTHARITH TAUCH

Publication Type	Citation
Chapter or section in books	Tauch, S., Liu, W., & Pears, R. (2016). Measuring Cascading Failures in Smart Grid Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 208–225). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch009

## STEFFAN HOOPER

Publication Type	Citation
Conference contribution	Nguyen, M., Yeap, W., & Hooper, S. (2016). Design of a new trading card for table-top augmented reality game environment. In <i>Image and Vision Computing New Zealand</i> . Image and Vision Computing New Zealand 2016. Retrieved from <a href="http://ivcnz.massey.ac.nz/">http://ivcnz.massey.ac.nz/</a>

## STEPHEN HENRY

Publication Type	Citation
Journal article	Williams, E., Barr, K., Korchagina, E., Tuzikov, A., Henry, S., & Bovin, N. (2016). Ultra-fast glyco-coating of non-biological surfaces. <i>International Journal of Molecular Sciences</i> , 17(1). doi:10.3390/ijms17010118
Journal article	Williams, E., Korchagina, E., Frame, T., Ryzhov, I., Bovin, N., & Henry, S. (2016). Glycomapping the fine specificity of monoclonal and polyclonal Lewis antibodies with type-specific Lewis kodeocytes and function-spacer-lipid constructs printed on paper. <i>Transfusion</i> , 56(2), 325–333. doi:10.1111/trf.13384
Journal article	Barr, K., Kannan, B., Korchagina, E., Popova, I., Ryzhov, I., Henry, S., & Bovin, N. (2016). Biofunctionalizing nanofibers with carbohydrate blood group antigens. <i>Biopolymers</i> , 787–794. doi:10.1002/bip.22907
Journal article	Perry, H., Bovin, N., & Henry, S. (2016). Antibody complement-mediated hemolytic studies with kodeocytes reveal that human complement utilized in the classical pathway is more stable than generally accepted. <i>Transfusion</i> . doi:10.1111/trf.13719
Journal article	Ryzhov, I. M., Korchagina, E. Y., Tuzikov, A. B., Popova, I. S., Tyrtys, T. V., Pazynina, G. V., . . . Bovin, N. V. (2016). Function-spacer-lipid constructs of Lewis and chimeric Lewis/ABH glycans. Synthesis and use in serological studies. <i>Carbohydrate Research</i> , 435, 83–96. doi:10.1016/j.carres.2016.09.016

## STEPHEN MACDONELL

Publication Type	Citation
Conference contribution	Kirk, D., & Macdonell, S. (2016). An ontological analysis of a proposed theory for software development. In <i>Software Technologies</i> Vol. 586 (pp. 155–171). Colmar, France: Springer Verlag. doi:10.1007/978-3-319-30142-6_9
Conference contribution	Lee, C. W., Licorish, S. A., Savarimuthu, B. T. R., & Macdonell, S. G. (2016). Augmenting text mining approaches with social network analysis to understand the complex relationships among users' requests: A case study of the android operating system. In <i>Proceedings of the Annual Hawaii International Conference on System Sciences</i> Vol. 2016–March (pp. 1144–1153). IEEE Computer Society. doi:10.1109/HICSS.2016.145

Conference contribution	Petrova, K., MacDonell, S. G., & Parry, D. (2016). Mobile data service adoption and use from a service supply perspective – An Empirical Investigation. In C. Callegari, M. van Sinderen, P. Sarigiannidis, P. Samarati, E. Cabello, & P. Lorenz (Eds.), <i>Proceedings of the 13th International Joint Conference on e-Business and Telecommunications Vol. Volume 2: ICE-B</i> (pp. 86–97). Lisbon, Portugal: SCITEPRESS – Science and Technology Publications, Lda. doi:10.5220/0005966100860097
Conference contribution	Hussain, W., Zowghi, D., Clear, T., MacDonell, S. G., & Blincoe, K. (2016). Managing Requirements Change the Informal Way! When Saying 'No' Is Not an Option. In <i>Proceedings of the 2016 IEEE 24th International Requirements Engineering Conference (RE'16)</i> (pp. 126–135). IEEE. doi:10.1109/RE.2016.64

### STEPHEN THORPE

Publication Type	Citation
Journal article	Thorpe, S. (2016). Online facilitator competencies for group facilitators. <i>Group Facilitation: A Research and Applications Journal</i> , 13, 79–90. Retrieved from <a href="https://www.iaf-world.org/site/journal">https://www.iaf-world.org/site/journal</a>

### STUART WESTON

Publication Type	Citation
Oral presentation	Verkouter, H., Bernhart, S., & Weston, S. (2016). <i>On your Marks ... Flex, Buff and VGOS, partly even in real-time</i> . Johannesburg, South Africa. Retrieved from <a href="http://events.saip.org.za/conferenceDisplay.py?ovw=True&amp;confId=56">http://events.saip.org.za/conferenceDisplay.py?ovw=True&amp;confId=56</a>
Journal article	Kadler, M., et al., Gulyaev, S., Natusch, T., Weston, S., & et al.. (2016). Coincidence of a high-fluence blazar outburst with a PeV-energy neutrino event. <i>Nature Physics</i> , 8 pages. doi:10.1038/nphys3715
Journal article	Krauβ, F., Wilms, J., Kadler, M., Ojha, R., Schulz, R., Trüstedt, J., . . . Weston, S. (2016). The TANAMI Multiwavelength Program: Dynamic SEDs of Southern Blazars. <i>Astronomy and Astrophysics</i> , 591, 26 pages. doi:10.1051/0004-6361/201628595
Journal article	Plank, L., Lovell, J., MacCallum, J., Mayer, D., Reynolds, C., Quick, J., . . . Gulyaev, S. (2016). The AUSTRAL VLBI observing program. <i>Journal of Geodesy</i> . doi:10.1007/s00190-016-0949-y
Journal article	Gulyaev, S., Natusch, T., & Weston, S. (2016). Planetary Radio Interferometry and Doppler Experiment (PRIDE) technique: A test case of the Mars Express Phobos fly-by. <i>Astronomy and Astrophysics</i> , 593. doi:10.1051/0004-6361/201628869
Conference contribution	Weston, S., & gulyaev, S. (2016). The Long White Cloud Correlator. In <i>The International VLBI Technical Workshop</i> . Boston, MA, USA. Retrieved from <a href="http://www.haystack.mit.edu/workshop/ivtw2016/Index.htm">http://www.haystack.mit.edu/workshop/ivtw2016/Index.htm</a>

### TANVEER AHMAD

Publication Type	Citation
Conference contribution	Ahmad, T., Li, X. J., & Seet, B. -C. (2016). 3D localization based on parametric loop division and subdivision surfaces for wireless sensor networks. In <i>25th Wireless and Optical Communication Conference (WOCC) 2016</i> (pp. 1–6). IEEE: IEEE. doi:10.1109/WOCC.2016.7506540
Conference contribution	Ahmad, T., Li, X. J., & Seet, B. -C. (2016). A self-calibrated centroid localization algorithm for indoor ZigBee WSNs. In <i>8th IEEE International Conference on Communication Software and Networks (ICCSN), 2016</i> (pp. 455–461). IEEE: IEEE. doi:10.1109/ICCSN.2016.7587200

### TASSANAI PARITTOTOKKAPORN

Publication Type	Citation
Conference contribution	Parittotokkapor, T. (2016). Finite element modeling of the carotid artery for simulation of the pulse wave velocity measurement. In J. Dean (Ed.), <i>New Zealand's premier multi-disciplinary biomedical and medical sciences conference</i> . Nelson, New Zealand.

**TEK LIE**

Publication Type	Citation
Journal article	Zhang, J., Seet, B. -C., & Lie, T. T. (2016). Event-based Resource Management Framework for Distributed Decision-Making in Decentralized Virtual Power Plant. <i>Energies</i> , 9(8), 19 pages. doi:10.3390/en9080595
Journal article	Tito, S. R., Lie, T. T., & Anderson, T. N. (2016). Optimal sizing of a wind-photovoltaic-battery hybrid renewable energy system considering socio-demographic factors. <i>Solar Energy</i> , 136, 525-532. doi:10.1016/j.solener.2016.07.036
Conference contribution	Nkom, B., Taylor, A., Baguley, C., Seet, B. -C., & Lie, T. T. (2016). A unified approach to characterizing medium to low voltage powerline communication channels. In IEEE International Conference on Power Systems Technology (POWERCON) (pp. 7 pages). Wollongong, Australia: IEEE. Retrieved from <a href="http://ieeexplore.ieee.org/abstract/document/7753995/">http://ieeexplore.ieee.org/abstract/document/7753995/</a>
Conference contribution	Ullah, A., Lie, T. T., Gunawardane, K., & Nair, N. K. C. (2016). Development of Browne's Arc Model for HTS applications. In 2016 IEEE International Conference on Power Systems Technology. Australia. Retrieved from <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7753971">http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7753971</a>
Conference contribution	Subasinghage, K., Gunawardane, K., Lie, T., & Kularatna, N. (2016). Design concepts and preliminary implementations of dual output supercapacitor-assisted low-dropout regulators (DO-SCALDO). In Australasian Universities Power Engineering Conference 2016. Brisbane, Australia. doi:10.1109/AUPEC.2016.7749346
Conference contribution	Kulkarni, R., Prasad, K., Lie, T. T., Badcock, R. A., & Bumby, C. W. (2016). FEM and performance analysis of 10 kW HTS generator with flux pump excitation. In Power System Technology (POWERCON), 2016 IEEE International Conference on (pp. 1-6). Wollongong, Australia: IEEE <a href="http://ieeexplore.ieee.org/">http://ieeexplore.ieee.org/</a> . doi:10.1109/POWERCON.2016.7753913
Conference contribution	Kaur, D., Lie, T., Nair, N. K. C., & Valles, B. (2016). An optimal reactive power dispatch (ORPD) for voltage security using particle swarm optimization (PSO) in graph theory. In 2016 IEEE International Conference on Sustainable Energy Technologies (ICSET) (pp. 25-30). Hanoi, Vietnam.
Conference contribution	Qureshi, J. A., Lie, T., & Hasan, R. (2016). LED lighting as energy management tool through correlation analysis of daily electricity demand and supply curve. In 2016 IEEE International Conference on Sustainable Energy Technologies (ICSET) (pp. 114-119). Hanoi, Vietnam.
Conference contribution	Al Karim, M., Currie, J., & Lie, T. (2016). A distributed machine learning approach for the secondary voltage control of an Islanded micro-grid. In 2016 IEEE Innovative Smart Grid Technologies - Asia (ISGT-Asia) (pp. 611-616). Melbourne Australia. doi:10.1109/ISGT-Asia.2016.7796454

**THOMAS NEITZERT**

Publication Type	Citation
Journal article	Sayadi, A. A., Tapia, J. V., Neitzert, T. R., & Clifton, G. C. (2016). Effects of expanded polystyrene (EPS) particles on fire resistance, thermal conductivity and compressive strength of foamed concrete. <i>Construction and Building Materials</i> , 112, 716-724. doi:10.1016/j.conbuildmat.2016.02.218
Journal article	Sayadi, A. A., Juan Vilches, T., Neitzert, T. R., & Charles Clifton, G. (2016). Strength of bearing area and locking area of galvanized strips in foamed concrete. <i>Construction and Building Materials</i> , 114, 56-65. doi:10.1016/j.conbuildmat.2016.03.146
Journal article	Sayadi, A. A., Juan Vilches, T., Neitzert, T. R., & Charles Clifton, G. (2016). Effectiveness of foamed concrete density and locking patterns on bond strength of galvanized strip. <i>Construction and Building Materials</i> , 115, 221-229. doi:10.1016/j.conbuildmat.2016.04.047
Journal article	Ramezani, M., & Neitzert, T. (2016). Computer simulations of direct extrusion of sintered Ti-6Al-4v alloy at elevated temperature. <i>International Journal of Applied Engineering Research</i> , 11(6), 3848-3852.

Chapter or section in books	Ramezani, M., & Neitzert, T. (2016). Formability of annealed AZ61 magnesium alloy at elevated temperatures. In M. Liewald (Ed.), <i>New developments in sheet metal forming: Hydroforming of sheets, tubes and profiles</i> (Vol. 9, pp. 337–347). INVENTUM GmbH.
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## TIMOTHY ANDERSON

Publication Type	Citation
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). An experimental investigation of parallel bubble pump performance. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Uzair, M., Anderson, T., & Nates, R. (2016). Air flow around a parabolic dish solar concentrator. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Enayatollahi, R., Nates, R., & Anderson, T. (2016). Falling Liquid Sheets with Gas Cross-Flow. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Norris, S. E., & Anderson, T. (2016). Natural Convection in a Partially Open Enclosure. In <i>Fluids in New Zealand</i> . Auckland.
Conference contribution	Norris, S. E., Anderson, T., & Gillen, J. C. (2016). Natural Convection in a Ventilated Bottom Heated Cubic Enclosure. In Proceedings of the First Pacific Rim Thermal Engineering Conference, PRTEC. Waikoloa, Hawaii, USA: Japan Society of Mechanical Engineers. Retrieved from <a href="http://www.jsme.or.jp/ted/PRTEC2016/index.html">http://www.jsme.or.jp/ted/PRTEC2016/index.html</a>
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Performance of a cooling system driven by engine exhaust heat. In Proceedings of 4th IIR Conference on Sustainability & the Cold Chain. Auckland: International Institute of Refrigeration. Retrieved from <a href="http://www.iifir.org/">http://www.iifir.org/</a>
Journal article	Tito, S. R., Lie, T. T., & Anderson, T. N. (2016). Optimal sizing of a wind-photovoltaic-battery hybrid renewable energy system considering socio-demographic factors. <i>Solar Energy</i> , 136, 525–532. doi:10.1016/j.solener.2016.07.036
Conference contribution	Yousuf, N., Anderson, T., Gschwendtner, M., & Nates, R. (2016). Predicting the pumping characteristics of multiple parallel tube air-lift pumps. In The Proceedings of the 20th Australasian Fluid Mechanics Conference. Perth: Australasian Fluid Mechanics Society. Retrieved from <a href="http://www.afms.org.au/">http://www.afms.org.au/</a>
Conference contribution	Anderson, T., Whittington, C., & Li, X. (2016). Classes to passes: Is class attendance a determinant of grades in undergraduate engineering subjects?. In S. T. Smith (Ed.), <i>27th Australasian Association for Engineering Education Conference</i> . Coff's Harbour: Southern Cross University.
Conference contribution	Rehman, N., Anderson, T., & Nates, R. (2016). Solar Potential Assessment of Facades in an Urban Context: An Algorithm for 1.5D Digital Surface Models. In R. Egan, & R. Passey (Eds.), Proceedings of the Asia Pacific Solar Research Conference 2016. Canberra: Australian PV Institute. Retrieved from <a href="http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/">http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/</a>
Conference contribution	Uzair, M., Anderson, T., & Nates, R. (2016). Impact of dish structure on the convective heat loss from a parabolic dish solar cavity receiver. In R. Egan, & R. Passey (Eds.), Proceedings of the Asia Pacific Solar Research Conference 2016. Canberra: Australian PV Institute. Retrieved from <a href="http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/">http://apvi.org.au/solar-research-conference/proceedings-from-past-conferences/</a>

## TIMOTHY NATUSCH

Publication Type	Citation
Journal article	Olkin, C. B., Young, L. A., French, R. G., Young, E. F., Buie, M. W., Howell, R. R., . . . Greenhill, J. G. (2016). Corrigendum to 'Pluto's atmospheric structure from the July 2007 stellar occultation' [Icarus 239 (2014) 15–22] DOI 10.1016/j.icarus.2014.05.018. <i>Icarus</i> , 269, 122. doi:10.1016/j.icarus.2016.01.029
Journal article	Kadler, M., et al., Gulyaev, S., Natusch, T., Weston, S., & et al.. (2016). Coincidence of a high-fluence blazar outburst with a PeV-energy neutrino event. <i>Nature Physics</i> , 8 pages. doi:10.1038/nphys3715

Journal article	KrauB, F., Wilms, J., Kadler, M., Ojha, R., Schulz, R., Trüstedt, J., . . . Weston, S. (2016). The TANAMI Multiwavelength Program: Dynamic SEDs of Southern Blazars. <i>Astronomy and Astrophysics</i> , 591, 26 pages. doi:10.1051/0004-6361/201628595
Journal article	Plank, L., Lovell, J., MacCallum, J., Mayer, D., Reynolds, C., Quick, J., . . . Gulyaev, S. (2016). The AUSTRAL VLBI observing program. <i>Journal of Geodesy</i> . doi:10.1007/s00190-016-0949-y
Journal article	Gulyaev, S., Natusch, T., & Weston, S. (2016). Planetary Radio Interferometry and Doppler Experiment (PRIDE) technique: A test case of the Mars Express Phobos fly-by. <i>Astronomy and Astrophysics</i> , 593. doi:10.1051/0004-6361/201628869

## TIMOTIUS PASANG

Publication Type	Citation
Journal article	Pasang, T., Ramezani, M., Prygoski, M., Wanhill, R., Byrnes, R., Kamiya, O., & Tanaka, K. (2016). Fatigue of commercially pure titanium dental implants. <i>Materials Physics and Mechanics</i> , 27(1), 79-89.
Journal article	Chamanfar, A., Pasang, T., Ventura, A., & Misiolek, W. Z. (2016). Mechanical properties and microstructure of laser welded Ti-6Al-2Sn-4Zr-2Mo (Ti6242) titanium alloy. <i>Materials Science and Engineering A</i> , 663, 213-224. doi:10.1016/j.msea.2016.02.068
Journal article	Soysal, T., Kou, S., Tat, D., & Pasang, T. (2016). Macrosegregation in dissimilar-metal fusion welding. <i>Acta Materialia</i> , 110, 149-160. doi:10.1016/j.actamat.2016.03.004
Journal article	Darvish, K., Chen, Z. W., & Pasang, T. (2016). Reducing lack of fusion during selective laser melting of CoCrMo alloy: Effect of laser power on geometrical features of tracks. <i>Materials and Design</i> , 112, 357-366. doi:10.1016/j.matdes.2016.09.086

## TOM MOIR

Publication Type	Citation
Journal article	Sharan, R. V., & Moir, T. J. (2016). An overview of applications and advancements in automatic sound recognition. <i>Neurocomputing</i> . doi:10.1016/j.neucom.2016.03.020
Conference contribution	"Moir, T. (2016). A new look at the LMS algorithm with Correlated driving noise.. In 2016 3rd International Conference on Signal Processing and Integrated Networks (SPIN) (pp. 24-27). New Delhi: IEEE Xplore online. Retrieved from <a href="http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7566656">http://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=7566656</a> "
Journal article	Harris, J. I., Alam, F., & Moir, T. J. (2016). A hybrid frequency-time domain symmetric adaptive decorrelator. <i>Signal, Image and Video Processing</i> , 1-8. doi:10.1007/s11760-016-1040-0

## TUNG NGUYEN

Publication Type	Citation
Conference contribution	Nguyen, T. D., & Bai, Q. (2016). Trust Management for Composite Services in Distributed Multi-agent Systems with Indirect Ratings: (Extended Abstract).. In C. M. Jonker, S. Marsella, J. Thangarajah, & K. Tuyls (Eds.), AAMAS (pp. 1295-1296). ACM. Retrieved from <a href="http://dl.acm.org/citation.cfm?id=2936924">http://dl.acm.org/citation.cfm?id=2936924</a>

## WAI YEAP

Publication Type	Citation
Journal article	Lu, H., du, B., Liu, J., Xia, H., & Yeap, W. K. (2016). A kernel extreme learning machine algorithm based on improved particle swam optimization. <i>Memetic Computing</i> , 1-8. doi:10.1007/s12293-016-0182-5

Conference contribution	Nguyen, M., & Yeap, W. (2016). StereoTag: A novel Stereogram-Marker-Based approach for augmented reality. In <i>International Conference on Pattern Recognition (ICPR 2016)</i> . IEEE. Retrieved from <a href="http://www.icpr2016.org/site/full-program/">http://www.icpr2016.org/site/full-program/</a>
Conference contribution	Nguyen, M., Yeap, W., & Hooper, S. (2016). Design of a new trading card for table-top augmented reality game environment. In <i>Image and Vision Computing New Zealand</i> . Image and Vision Computing New Zealand 2016. Retrieved from <a href="http://ivcnz.massey.ac.nz/">http://ivcnz.massey.ac.nz/</a>

### WAQAR HUSSAIN

Publication Type	Citation
Conference contribution	Hussain, W., Zowghi, D., Clear, T., MacDonell, S. G., & Blincoe, K. (2016). Managing Requirements Change the Informal Way! When Saying 'No' Is Not an Option. In <i>Proceedings of the 2016 IEEE 24th International Requirements Engineering Conference (RE'16)</i> (pp. 126-135). IEEE. doi:10.1109/RE.2016.64

### WEI-QI YAN

Publication Type	Citation
Journal article	Cui, W., & Yan, W. -Q. (2016). A scheme for face recognition in complex environments. <i>International Journal of Digital Crime and Forensics</i> , 8(1), 1-12. Retrieved from <a href="http://www.igi-global.com/">http://www.igi-global.com/</a>
Book	Yan, W. -Q. (2016). <i>Introduction to Intelligent Surveillance</i> . Springer: Springer. doi:10.1007/978-3-319-28515-3
Journal article	Wang, J., & Yan, W. -Q. (2016). BP-Neural Network for Plate Number Recognition. <i>International Journal of Digital Crime and Forensics</i> , 8(3), 34-43. doi:10.4018/IJDCF.2016070103
Journal article	Wang, G., Yan, W. -Q., & Kankanhalli, M. (2016). Content Based Authentication of Visual Cryptography. <i>Springer Multimedia Tools and Application</i> , 1-12. doi:10.1007/s11042-016-3549-1
Journal article	G. Wang., F. Liu., & Yan, W. -Q. (2016). Basic Visual Cryptography Using Braille. <i>International Journal of Digital Crime and Forensics</i> , 8(3), 83-91. doi:10.4018/IJDCF.2016070106
Conference contribution	Li, F., Zhang, Y., Yan, W., & Klette, R. (2016). Adaptive and Compressive Target Tracking Based on Feature Point Matching. In <i>Proceedings - International Conference on Pattern Recognition Vol. 1</i> (pp. 1-12). Cancun Mexico: Springer. Retrieved from <a href="http://www.icpr2016.org/site/full-program/">http://www.icpr2016.org/site/full-program/</a>

### WILLEM VAN STRATEN

Publication Type	Citation
Journal article	Petroff, E., Barr, E. D., Jameson, A., Keane, E. F., Bailes, M., Kramer, M., . . . van Straten, W. (2016). FRBCAT: The Fast Radio Burst Catalogue. <i>Publications of the Astronomical Society of Australia</i> , 33(e045), 7 pages. doi:10.1017/pasa.2016.35
Journal article	Shannon, R. M., Lentati, L. T., Kerr, M., Bailes, M., Bhat, N. D. R., Coles, W. A., . . . Zhu, X. -J. (2016). The disturbance of a millisecond pulsar magnetosphere. <i>Astrophysical Journal Letters</i> , 828(L1), 6 pages. doi:10.3847/2041-8205/828/1/L1
Journal article	Champion, D. J., Petroff, E., Kramer, M., Keith, M. J., Bailes, M., Barr, E. D., . . . Lyne, A. G. (2016). Five new fast radio bursts from the HTRU high-latitude survey at Parkes: first evidence for two-component bursts. <i>Monthly Notices of the Royal Astronomical Society</i> , 460(1), L30-L34. doi:10.1093/mnrasl/slw069
Journal article	Lentati, L., Shannon, R. M., Coles, W. A., Verbiest, J. P. W., van Haasteren, R., Ellis, J. A., . . . Zhu, X. -J. (2016). From spin noise to systematics: stochastic processes in the first International Pulsar Timing Array data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 458(2), 2161-2187. doi:10.1093/mnras/stw395

Journal article	Verbiest, J. P. W., Lentati, L., Hobbs, G., van Haasteren, R., Demorest, P. B., Janssen, G. H., . . . Zhu, X. -J. (2016). The International Pulsar Timing Array: First data release. <i>Monthly Notices of the Royal Astronomical Society</i> , 458(2), 1267-1288. doi:10.1093/mnras/stw347
Journal article	Caleb, M., Flynn, C., Bailes, M., Barr, E. D., Bateman, T., Bhandari, S., . . . Krishnan, V. V. (2016). Fast Radio Transient searches with UTMOST at 843 MHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 458(1), 718-725. doi:10.1093/mnras/stw109
Journal article	Caleb, M., Flynn, C., Bailes, M., Barr, E. D., Hunstead, R. W., Keane, E. F., . . . van Straten, W. (2016). Are the distributions of fast radio burst properties consistent with a cosmological population?. <i>Monthly Notices of the Royal Astronomical Society</i> , 458(1), 708-717. doi:10.1093/mnras/stw175
Journal article	Camilo, F., Ransom, S. M., Halpern, J. P., Alford, J. A. J., Cognard, I., Reynolds, J. E., . . . van Straten, W. (2016). Radio disappearance of the Magnetar XTE J1810-197 and continued x-ray timing. <i>Astrophysical Journal</i> , 820(2), 12 pages. doi:10.3847/0004-637X/820/2/110
Journal article	Keane, E. F., Johnston, S., Bhandari, S., Barr, E., Bhat, N. D. R., Burgay, M., . . . Bassa, C. (2016). The host galaxy of a fast radio burst. <i>Nature</i> , 530(7591), 453-456. doi:10.1038/nature17140
Journal article	Lasky, P. D., Mingarelli, C. M. F., Smith, T. L., Giblin, J. T., Thrane, E., Reardon, D. J., . . . Zhu, X. (2016). Gravitational-wave cosmology across 29 decades in frequency. <i>Physical Review X</i> , 6, 011035-01-011035-11. doi:10.1103/PhysRevX.6.011035
Journal article	Price, D. C., Staveley-Smith, L., Bailes, M., Carretti, E., Jameson, A., Jones, M. E., . . . Schediwy, S. W. (2016). HIPSr: A digital signal processor for the Parkes 21-cm Multibeam Receiver. <i>Journal of Astronomical Instrumentation</i> , 5(4), 1641007-1-164007-11. doi:10.1142/S2251171716410075

## XUEJUN LI

Publication Type	Citation
Journal article	Li, X. J., & Ma, M. (2016). Joint concurrent routing and multi-pointer packet scheduling in IEEE 802.16 mesh networks. <i>Wireless Personal Communications</i> , 90(1), 33-50. doi:10.1007/s11277-016-3329-2
Conference contribution	Nam, L. H., Huang, L., Li, X. J., & Xu, J. F. (2016). An approach for coverage path planning for UAVs. In 2016 IEEE 14th International Workshop on Advanced Motion Control, AMC 2016 (pp. 411-416). Auckland: Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/AMC.2016.7496385
Conference contribution	Ahmad, T., Li, X. J., & Seet, B. -C. (2016). 3D localization based on parametric loop division and subdivision surfaces for wireless sensor networks. In 25th Wireless and Optical Communication Conference (WOCC) 2016 (pp. 1-6). IEEE: IEEE. doi:10.1109/WOCC.2016.7506540
Conference contribution	Parthiban, P., Seet, B. -C., & Li, X. (2016). Low-cost scalable UHF RFID reader antenna with no surface dead zones. In <i>IEEE Asia-Pacific Conference on Applied Electromagnetics (APACE)</i> (pp. 24-29). Langkawi, Malaysia: IEEE.
Conference contribution	Ahmad, T., Li, X. J., & Seet, B. -C. (2016). A self-calibrated centroid localization algorithm for indoor ZigBee WSNs. In 8th IEEE International Conference on Communication Software and Networks (ICCSN), 2016 (pp. 455-461). IEEE: IEEE. doi:10.1109/ICCSN.2016.7587200
Conference contribution	Anderson, T., Whittington, C., & Li, X. (2016). Classes to passes: Is class attendance a determinant of grades in undergraduate engineering subjects?. In S. T. Smith (Ed.), <i>27th Australasian Association for Engineering Education Conference</i> . Coff's Harbour: Southern Cross University.

## YANG LIU

Publication Type	Citation
Conference contribution	Seet, B. -C., Zhang, J., & Liu, Y. (2016). In-home assisted living for elderly dementia care. In <i>SAI Intelligent Systems Conference</i> (pp. 1095-1100). USA: IEEE.

## ZAHRA MOAYED

Publication Type	Citation
Conference contribution	Al-Sarayreh, M., Moayed, Z., Bollard-Breen, B., Ramond, J., & Klette, R. (2016). Detection and spatial analysis of fairy circles. In <i>IVCNZ 2016</i> . Palmerston North: IEEE. doi:10.1109/IVCNZ.2016.7804457

## ZHAN CHEN

Publication Type	Citation
Journal article	Razak, N. H., Chen, Z. W., & Pasang, T. (2016). Progression of tool deterioration and related cutting force during milling of 718Plus superalloy using cemented tungsten carbide tools. <i>International Journal of Advanced Manufacturing Technology</i> , 1-14. doi:10.1007/s00170-016-8438-2
Journal article	Darvish, K., Chen, Z. W., & Pasang, T. (2016). Reducing lack of fusion during selective laser melting of CoCrMo alloy: Effect of laser power on geometrical features of tracks. <i>Materials and Design</i> , 112, 357-366. doi:10.1016/j.matdes.2016.09.086

## ZHIYONG LIU

Publication Type	Citation
Conference contribution	Usman, A., Liu, W., Bai, Q., & Narayanan, A. (2016). Exploring the Role of Structural Similarity in Securing Smart Metering Infrastructure. In <i>2015 IEEE IEEE International Conference on Data Science and Data Intensive Systems</i> (pp. 343-349). Sydney, Australia: IEEE DSDIS Proceedings. doi:10.1109/DSDIS.2015.95
Journal article	Xiang, M., Liu, W., & Bai, Q. (2016). A fuzzy logic-based sustainable and trusted routing for P2P enabled smart grid. <i>International Journal of Computational Science and Engineering</i> , 13(2), 165-174. doi:10.1504/IJCSE.2016.078445
Conference contribution	Qi, R., Liu, W., Gutierrez, J., & Malik, A. W. (2016). Crash me if you can: Rethinking sustainable Data Center Networking from a topological perspective. In <i>Proceedings - IEEE INFOCOM Vol. 2016-September</i> (pp. 566-571). Institute of Electrical and Electronics Engineers Inc.. doi:10.1109/INFOCOMW.2016.7562140
Journal article	Chiaraviglio, L., Cianfrani, A., Listanti, M., Liu, W., & Polverini, M. (2016). Lifetime-Aware Cloud Data Centers: Models and Performance Evaluation. <i>Energies</i> , 9(6), 470. doi:10.3390/en9060470
Conference contribution	Luo, B., Liu, W., & Al-Anbuky, A. (2016). SustainMe if you can: Sustainable transmission networking design for Big Data. In <i>2016 IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)</i> (pp. 265-270). San Francisco, CA, USA. doi:10.1109/INFOCOMW.2016.7562084
Conference contribution	Memon, A., Liu, W., & Al-Anbuky, A. (2016). CatchMe If You Can: Enable Sustainable Communications Using Internet of Movable Things. In <i>2016 IEEE 14th Intl Conf on Dependable, Autonomic and Secure Computing, 14th Intl Conf on Pervasive Intelligence and Computing, 2nd Intl Conf on Big Data Intelligence and Computing and Cyber Science and Technology Congress(DASC/ PiCom/DataCom/CyberSciTech)</i> (pp. 947-952). doi:10.1109/DASC-PiCom-DataCom-CyberSciTec.2016.163
Chapter or section in books	Tauch, S., Liu, W., & Pears, R. (2016). Measuring Cascading Failures in Smart Grid Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 208-225). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch009
Chapter or section in books	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). Dynamic Trust Elective Geo Routing to Secure Smart Grid Communication Networks. In Ayaz Ahmad, & Naveed UI Hassan (Eds.), <i>Smart Grid as a Solution for Renewable and Efficient Energy</i> (pp. 323-343). Hershey, PA, USA: IGI Global. doi:10.4018/978-1-5225-0072-8.ch014

Conference contribution	Ma, J., Choo, K. K. R., Hsu, H. H., Jin, Q., Liu, W., Wang, K., . . . Zhou, X. (2016). Perspectives on Cyber Science and Technology for Cyberization and Cyber-Enabled Worlds. In 2016 IEEE 14th Intl Conf on Dependable, Autonomic and Secure Computing, 14th Intl Conf on Pervasive Intelligence and Computing, 2nd Intl Conf on Big Data Intelligence and Computing and Cyber Science and Technology Congress(DASC/PiCom/DataCom/CyberSciTech) (pp. 1-9). doi:10.1109/DASC-PiCom-DataCom-CyberSciTec.2016.17
Journal article	Xiang, M., Liu, W., Bai, Q., & Al-Anbuky, A. (2016). The critical role of structural hole in forming trust for Securing Wireless Sensor Networks. <i>International Journal of Information, Communication Technology and Applications</i> , 2(1), 66. doi:10.17972/ijicta20162127
Conference contribution	Chiaraviglio, L., Blefari-Melazzi, N., Liu, W., Gutierrez, J., Van De Beek, J., Birke, R., . . . Wu, J. (2016). 5G in Rural and Low-Income Areas: Are We Ready?. In Proceedings of the 8th ITU Kaleidoscope Academic Conference. Bangkok, Thailand. Retrieved from <a href="http://www.itu.int/">http://www.itu.int/</a>

## ZOHREH GHOLAMI DOBORJEH

Publication Type	Citation
Conference contribution	Capecci, E., Gholami Doborjeh, Z., Mammone, N., Foresta, F., Morabito, F., & Kasabov, N. (2016). Longitudinal Study of Alzheimer's Disease Degeneration through EEG Data Analysis with aNeuCube Spiking Neural Network Model. In Z. -H. Zhou (Ed.), <i>IEEE WCCI 2016</i> (pp. 1360-1366). IJCNN conference 2016 in Vancouver, Canada: IEEE.
Conference contribution	Gholami Doborjeh, Z., Gholami, M., & Kasabov, N. (2016). Efficient recognition of attentional bias using EEG data and the NeuCube evolving Spatio-Temporal Data Machine. In <i>International Conference on Neural Information Processing 2016 Vol. 9950</i> (pp. 645-653). Kyoto: Springer International Publishing AG 2016. doi:10.1007/978-3-319-46681-1-76
Conference contribution	Kawano, H., Seo, A., Gholami Doborjeh, Z., Kasabov, N., & Gholami, M. (2016). Analysis of Similarity and Differences in Brain Activities between Perception and Production of Facial Expressions Using EEG Data and the NeuCube Spiking Neural Network Architecture. In <i>International Conference on Neural Information Processing 2016</i> (pp. 221-227). Kyoto, Japan: Springer International Publishing AG 2016. doi:10.1007/978-3-319-46681-1_27
Journal article	Kasabov, N. K., Doborjeh, M. G., & Doborjeh, Z. G. (2016). Mapping, Learning, Visualization, Classification, and Understanding of fMRI Data in the NeuCube Evolving Spatiotemporal Data Machine of Spiking Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 28(4), 887-899. doi:10.1109/TNNLS.2016.2612890
Journal article	Kasabov, N., Zhou, L., Doborjeh, M., Gholami, Z., & Jie Yang. (2016). New algorithms for encoding, learning and classification of fMRI data in a spiking neural network architecture: A case on modelling and understanding of dynamic cognitive. <i>IEEE Transactions on Cognitive and Developmental Systems</i> , 99. doi:10.1109/TCDS.2016.2636291



**FACULTY OF  
DESIGN & CREATIVE TECHNOLOGIES**

**TE ARA AUAHA**

**City Campus**

WA Building (Level 6), Wellesley Street,  
Auckland Central, Auckland 1010, New Zealand.

Phone: +64 9 921 9601

Email: [d&ct@aut.ac.nz](mailto:d&ct@aut.ac.nz)