



ART &  
TEXT  
VIBES  
AND  
REASON

RESEARCH  
REVIEW  
2013



## From the Dean

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It is my pleasure to bring you this second edition of the magazine **τεχνη & λογός** profiling the research of the Faculty of Design and Creative Technologies during the year 2013. The Faculty houses the Schools of Art & Design, Computer and Mathematical Sciences, Communication Studies, Engineering. Colab complements the Schools as a combined research and teaching unit which has an integrative, cross-cutting and Creative Technologies brief for the faculty.

From the table of contents you can see this breadth of discipline areas covered and the Research Institutes associated with the Faculty. The Faculty's unique intersection of design, science, technology, the arts and creativity is demonstrated through the research projects and the profiles of researchers presented here.

Auckland University of Technology has always had a strong focus on engaged and generative

activity combining the skills demanded of today's professionals with the forward thinking required to shape the professions of the future and produce adaptable and ingenious graduates. The increasing research intensity of the Faculty brings an added dynamism to our teaching and learning. Through our research we seek to frame our world in new ways, to understand, theorize and generate. Our researchers impact upon practice to create futures that transform how we think and act in our social and professional lives. We strive to produce graduates who are not only adaptable to these new futures but are capable of taking leading roles in further shaping them.

I hope you enjoy reading the magazine, and are as inspired as we are by the brilliance and the buzzing, blooming profusion demonstrated by the work of our researchers.

## Professor Desna Jury

Dean, Faculty of Design and Creative Technologies, Auckland University of Technology

# Research Review Faculty of Design and Creative Technologies Volume I

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

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## Staff Awards and Fellowships Gained in 2013

### **Peter Gilderdale**

Received a *double gold medal* in the label design (series) section at the 33rd San Francisco International Wine Competition (together with AUT alumnus Christopher Thompson).

### **Professor Welby Ings**

Awarded the Inaugural *AUT University Medal*.

Awarded the *2013 AuSM award for Best Postgraduate Supervisor* at Auckland University of Technology.

### **Dieneke Jansen**

Won the *2013 National Contemporary Art Award* sponsored by Waikato Society of Arts and hosted by Waikato Museum.

### **Monique Jansen**

Winner of the inaugural *Parkin Drawing Prize*, Aotearoa New Zealand's premier award for drawing.

### **Professor Nikola Kasabov**

Awarded *Distinguished Visiting Fellowship* by the Royal Academy of Engineering (RAE), UK.

### **Jim Marbrook**

Awarded *Special Media Award* at the New Zealand and Australia Mental Health Achievement Awards for his film *Mental Notes*.

### **Dave Moore**

Awarded *AUT Vice Chancellor's Award 2013 for Established Research Team* (Director and member).

### **Tim Pasang**

Awarded *Fellow of the Japan Society for the Promotion of Science*.

### **Professor John Raine**

Elected a *Distinguished Fellow of the Institution of Professional Engineers of New Zealand* for his contributions to leadership in New Zealand's research and innovation eco-system, through university research and commercialisation developments, and at a national policy level.





• A composite photo of Professor Ings by G. McLeod



## A Practitioner of Disobedient Thought

(Interviewer Richard Pamatatau)

### Interview with Professor Welby Ings

As a practitioner of disobedient thought, and the winner of Auckland University of Technology's inaugural University Medal, Professor Welby Ings was surprisingly compliant when it came to talking about himself.

I was expecting (without evidence of course) that he might be difficult talent, perhaps recalcitrant around a conversation, and that extracting what makes him tick might be problematic.

Especially when there's already been a bit written about him; and his work – particularly the films – speak for themselves.

So when we met in his office, a room with seven clocks – props from those films or gifts from students – it was clear, that more-than-anything-else – we'd not have any excuse to deviate from the half hour slot allotted for a wrap on the medal winning scholar, his academic career and more.

Talking and using a journalistic methodology to interrogate high achievers can be challenging; where to go, where not to go, what to canvass, what to ask and what not to ask about and most of all how to keep the talent engaged and talking and talking. There are so many variables and the prying (because that is what it can be) can at times be quite difficult for the talent. Especially when the talent is credentialed, media savvy and pushed for time.

Fortunately Professor Ings is happy to yap; on everything from Madonna, the pop singer - not the mother of Christ, the heft of Tolstoy, Foucault and other theorists, the merits (or not) of marks and just what creativity is, or is not... so the issue became one of containment (or restraint) rather than extraction.

Professor Ings obviously has a few things going on, as they say. (Who they are is not important so take it in this context as an anecdotal conceit rather than peer-reviewed evidence.)

But among the things are the specific and the non-specific, the real and the imagined-but-soon-to-be real and going off on his desktop

computer screen, is Madonna, the pop singer.

And all we have is half an hour to jam in enough that presents a fair picture and some context of the life of a busy busy fella.

If it seems already that this text about Professor Ings is a bit stream of consciousness, that's because it was a kind of stream of consciousness kind of conversation. Like being a few hours into a dinner party, but without the lubrication fine dining and wine affords; and in the morning.

It was preceded by student meetings and to be followed by more meetings with students including an (academic) discussion of and about the already mentioned pop singer. In fact we could have had quite the conversation about Madonna, a well-known figure in the pre-Lorde music world who has spawned thousands of wannabes, sold millions of albums, and become a figure of study for academics across a range of disciplines. That's because we knew her music and its place in the 80s – a kind of musical-temporal location thing. We started to, but in the end came to a conclusion (of sorts) that she is both ahead of time and on-time. Plus she is a lot of fun and playful while being adventurous and challenging. A bit like the conversation which was gaining momentum while the clocks in his office moved forward and our time together shortened.

Professor Ings is the inaugural recipient of The University Medal, AUT's pre-eminent academic award that recognises a significant body of sustained and outstanding contribution to the academe.

In presenting the award the Vice Chancellor Derek McCormack said: "In essence, a university is its teaching and research. Teaching and research inspires our students, promotes curiosity and new discovery, and ultimately delivers knowledge, expertise and creativity to the wider communities we serve in business, industry, our society and beyond."

"Universities gain their reputation by the quality of their teaching, the excellence of their

graduates, and the extent and impact of their research on issues of significance.”

Of course such comments are to be expected. They are the stuff of a media release plus public relations plus perception-making and when the Minister for Tertiary Education is present to present the medal a certain formality is required.

But such comments are also kinda like a plot summary or trailer (after all Professor Ings makes films) in that they offer a bit of the direction but little of the detail which is what the reader of a text or viewer of a film wants.

And that’s much of what this conversation was all about; an attempt to get some clarity.

**So what did I know about Professor Ings on going in to talk to him?**

He grew up on a farm in the King Country and loved the space afforded by country life. He liked to spend time in the back paddocks and loved the creativity of his grandfather who solved farming problems in a pragmatic way.

Disobedient pragmatism, Professor Ings says, is a rich approach to problem solving.

And of course it is known to many that Professor Ings didn’t read ‘til his late teens which is hugely ironic because of his publishing record and because he’s big on type – the figures on a page or screen that enable meaning and more meaning to be taken from a text. He’s said it has a voice beyond what’s seen on the page and that people probably don’t think about how they’re written so I’m wondering what he and you might be thinking about this text and type and meaning and a slew of other things.

**Does that make him an A type expert?**

And in the Internet-enabled communication age where less is often more or might be when it comes to @twitter communication, selfies, Snapchat and txt language, does type have a place in the presentation and location of ideas?

That would have been an ideal question but I didn’t ask it because we kept getting sidetracked so it’s been included because a conversation can go beyond the page and it might be somewhere to start next time round.

His films (*Boy and Munted*) are also included because they’ve been selected for numerous international festivals including Cannes. *Boy*

was shortlisted for the 2006 Academy Awards. The films reference the nature of secrets, life, space and identity in small and apparently difficult rural communities. Professor Ings says there are elements of his life in them but there are enough moments in them that many people could relate to. A bit like type they suggest and gesture.

And then there are some questions I didn’t ask but should have; among them what would Professor Ings have said if he’d won?

**Would he have self-edited?**

Self-editing is something he talked about quite a few times in the conversation and that by itself means it must be mentioned.

**What is it though – this self-editing process?**

Professor Ings said many people operate in either a self-editing or edited space and that speaks to hierarchy, identity, sexuality, location and a host of other matters that also impact any person’s view of themselves.

Such a statement invites a reader, or interviewer to ponder his or her own practice of self-editing, especially when a University is supposed to be a place of inquiry, scholarship and development. That’s because the academe is about refinement of ideas too which is a form of editing.

Is he, I asked, saying Universities need to do some rethinking and if so about what, who, why, when and how?

And somewhere in the conversation he’s asked me to ask him about truth so I’ve noted it for a bit later.

Of course it’s clear he wants Universities to do some rethinking and this is a chance to get it on the record again but this time in an article about him rather than about his work. He’s not a fan of marks and regards the process as a disturbing and destructive process.

Marks, he said, are an indicator of a person’s ability to serve something up and may not be about truth.

It begged the question of whether or not truth is authentic.

He’s also talked about throwing out the truth because it’s constraining and did I get that?

I’m beginning to get it. A bit.

So I returned to his bio where he states

“there are scholars who write, analyse and contextualise and then there are those who create.” He is obviously the latter and that creativity for him is part of normal thought. But we know this already because he has talked about (or referenced) his childhood and related experiences down on the farm and in the back paddocks.

And yes he did have a view on what normal thought is.

“It’s what people do every day as part of living no matter where they are or what they are doing and they don’t get marked for that.”

Professor Ings said people do extraordinary things every day in their workplace and relationships, whether they are conscious of it or not.

He said human beings even in mundane jobs bring creativity to their workplace but often it’s just not noticed. He believes that creativity can manifest itself through the management of drudgery or the way shelves are stacked. (By way of an example)

But what he reiterated after that diversion on creativity and we really needed more time to talk about it, was how answers, especially when elegant and appropriate are what designers seek ahead of truth. Is this a case of beauty wins and truth is merely an inconvenient but necessary aid? I’m still pondering that one.

It’s been a dozen years since Professor Ings received the Prime Minister’s Award for Tertiary Teaching Excellence and the NZ Government Award for Sustained Tertiary Teaching Excellence and he affirmed his greatest commitment is to teaching.

But, by way of a disruptive kind of bump in the narrative, he said teaching is not about the dissemination of knowledge. So then the question is what is it?

According to Professor Ings it is the creation of an environment for learning, which may be why Madonna is on the slate for the discussion with his students about heterodiegetic narration, ahead of say an academic text from a journal. Not that journal articles are a bad thing, knowing what other people think can be, he agreed, a good way to get a steer on where you might be going.

At this point I wasn’t sure where we were going but I was getting the drift that Professor Ings is perhaps not the sort of person to stick to the or any map and relies on his internal compass to find direction, and at the same time tries to enable others to do the same.

There’s still a bit of the fact-stating to go through and Professor Ings talks about completing his PhD in 2005 on the structure and profiles of narrative music videos and TV commercials. These are texts, he said, loaded with material and they play (obviously) before thousands of people every day so why not think about what makes them work? What keeps calling us back to a music video for up to eleven weeks of rotation?

Then there’s fellowship to the Royal Society of Arts in the UK, the membership of the New Zealand Designers’ Institute and he’s an advisor on technology education for the New Zealand Royal Society.

This I asked is pretty conservative stuff so where does it fit in with this whole disruptive thing?

It is he said, with a smile, not always what he did but how he did it.

I’m interested then in how his research and design have seen him tackle the history of the culture of male prostitution, homosexual law reform, mental health and immigration.

He said it is about being very open to possibilities that abound and allowing the disobedience to bring things to the present and the fore. That might be why when Professor Ings was accepting the medal he said with consternation that his Dad thought perhaps his Master’s thesis must be good because he didn’t understand it. It is things like this that made him realise scholarship should always consider how it makes knowledge accessible.

I thought more as we talked, without restraint, and as I’ve written that the conversation with Professor Ings was mostly about him but also a bit about me having a chance to practice some disobedient writing in the delivery of this text which is to be read, but not marked.





## National Contemporary Art Award for Dieneke Jansen

(Contributed by D. Jansen)

Dieneke Jansen has been photographing transitioning Auckland residential areas including areas that had been occupied by the military, such as Papakura military camp and Hobsonville airbase. Dieneke is primarily interested in the way these renegotiated sites speak of today's dominant socio-political ideologies. Her motivations for photographing these areas go beyond the documentation of sites in flux to a more specific socio-political critique and engagement with how this affects communities. Works such as *McLennan Development, Papakura Military Camp, 2011* exhibited in the te Tuhi exhibition Rapid Change drew attention to the issue of Auckland development, land availability and the role that private developers play in the decision making of our local and national governing bodies.

Dieneke's work *Morrison drive, Hobsonville 23 November 2012*, won the National Contemporary Art award in August 2013. Art critic and University of Auckland senior lecturer Jon Bywater judged the significant \$15,000 award. Bywater described Dieneke's work as "strikingly ordinary yet also strikingly strange [...] Its subject is some overgrown debris in an empty section, in front of some unremarkable state houses.

At the same time, it is a technically improbable-looking image, crisply focused from one end to the other of a large print that hangs down the wall and into the room, from blades of grass in the foreground right to trees on the horizon. This abundance of visual information slows us down, but what the story might be here is not made plain. The title – just an address and a date – is our cue to discover more, to consider a specific location and point in time, and how it might relate to both bigger pictures and details of people's lives."

Hit by the closure of the Air Force base, rezoning, redevelopment and a tornado, Morrison Drive is where the last Air Force dwellers and redevelopment meet. The RNZAF sold the airfield back to the NZ Government in 2002.

Of the 3,000 homes to be built, 15% were to be state housing. The 2008-elected government removed the state housing requirements from Hobsonville Point and instead introduced a 'gateway housing' scheme to help first-time home buyers. This scheme was axed mid-2012. Prime Minister John Key suggested that creating housing for low-income earners in more affluent suburbs was "economic vandalism". *Morrison drive, Hobsonville 23 November 2012* is constructed from 20+ photographs, joining viewpoints that look up, across and down. Expanding on the singular viewpoint and moment, it aims to activate a viewing experience, in an attempt to find new ways to think about social space.

In 2013-14, Jansen is completing a project that focuses on Glen Innes, and is titled *GI Area A & B*. The ambitions of this project are motivated by a desire to develop a socially engaged art practice with a focus on residential space as a way to 'discuss' conditions of social life.

Work undertaken in 2012 while on a five-month artist residency in Rotterdam, Holland focused on the high-density social housing area of Charlois. Interaction and exchange between artist and community members within public sites sat at the core of the project that ensued.

As a way to explore possibilities within both the designed and indeterminate aspects of

shared urban space, Jansen worked with ideas and methods that embraced improvisational aspects of play, their associated temporality and contentiousness. Active engagement with public sites that contest rights of access and use was a focus of the Hommes Galerie, Rotterdam exhibition *Between a Brick and a Tender Place*, and it located a way of working that forms the basis of the 2014 project titled *GI Area A & B*.

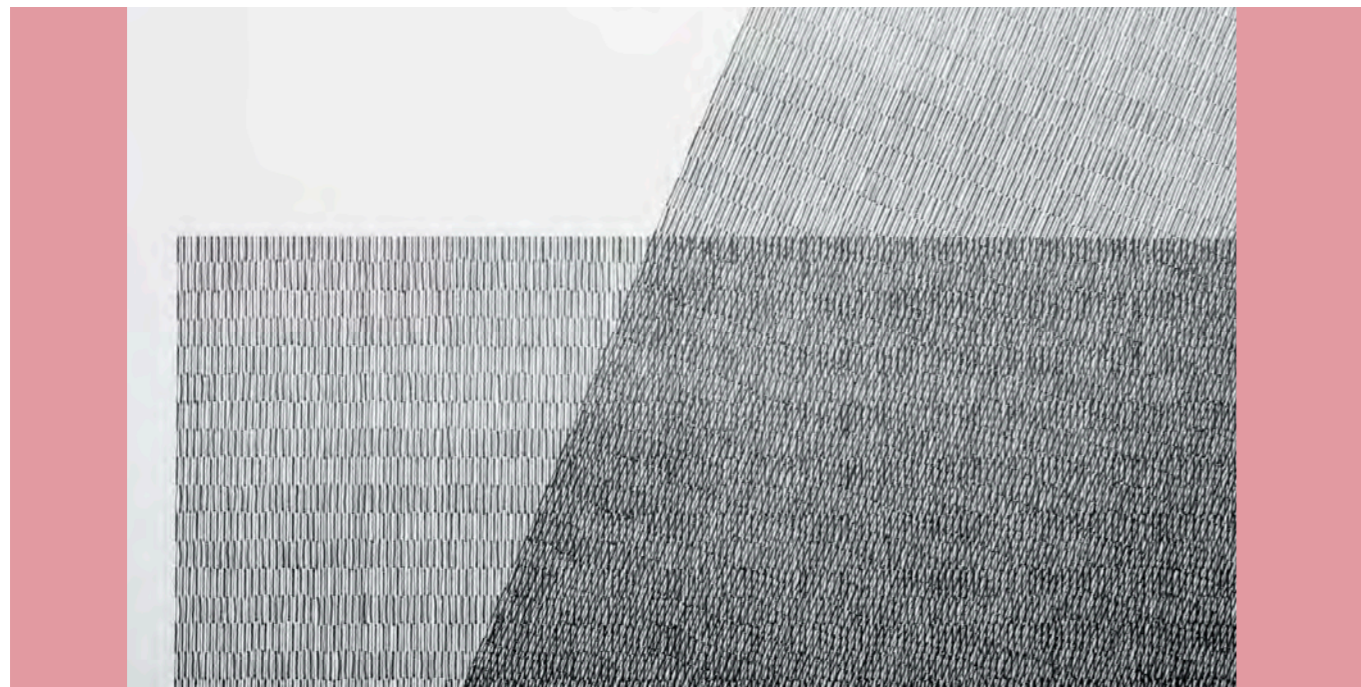
In her art practice, Jansen continues to be interested in investigating how the symbolic can lever open agonistic spaces/events/situations and sustain tensions between artistic and social critiques. With lens-based strategies she aims to employ a documentary tension between non-objective narratives and indexical specifics of time and place.



▶ Dieneke Jansen's award winning photo *Morrison drive, Hobsonville 23 November 2012*, Waikato Museum, photo by Leafa Wilson, 2013







▸ Monique Jansen's award winning drawing *AO Folded Moire Drawing (detail)*

## Parkin Drawing Prize for Monique Jansen

(Contributed by M. Jansen)

Working across painting, drawing and print, the main focus of Monique Jansen's art practice for the last 15 years has been in and around drawing, the grid and its repetitions, specifically the accumulation of many, many small marks to create crisp yet dissolving grids.

In August 2013, Monique was awarded first prize in the inaugural Parkin Drawing Prize for her work, *AO Folded Moire Drawing*. This \$20,000 prize was established by Wellington arts patron, Chris Parkin. The prize aims to promote excellence and innovation in drawing in all its forms and in doing so, fostering the importance of drawing practice.

The winning work was a large pencil drawing on paper, with two hand-drawn, overlapping layers of repeated geometric pencil marks,

creating a moiré pattern and resembling a large sheet of folded patterned paper. The judge, Heather Galbraith, Associate Professor and Head of School at School of Fine Arts, Massey University, made these comments about the winning work: "The work has visual punch, sucks you in to a vortex of marks where you can get lost for some time. The intricacy and character of the individual marks hits you second, by which time you develop some concern for whether the artist suffers from RSI, but the overall effect of the work is cohesive. The technique does not dominate the work; the process – while integral – does not render the work clinical."

Monique's work is sited within contemporary non-objective painting practices, but aims to extend this paradigm through an examination

of how drawing, with its associated contexts of provisionality and the generative, might challenge this form of abstraction. Non-objective practice, also known as Post-formalist or Reductive Art, is non-representational and is characterised by geometric forms, seriality, repetition and craftsmanship. Drawing, however, tends to speak of the preparatory or unfinished. So her work looks at how drawing materials and processes might drive a 'light' approach to the materially more complex nature of non-objective practices. With the emphasis in her work on the accumulation of simple repetitive hand drawn marks, human frailty corrupts the grid into an imperfect form. The intent of making drawings in this way is to create an image that shifts as the viewer moves through and past the work. The sense of a graphic, all-over tonal field/grid when viewed from a distance, breaks down as one moves closer to the work and notices that it is made up of many, many small units.

Highly labour-intensive, her drawings are works where the durational aspect of the labour is visible in the final outcome. It is these concerns about drawing and its contexts that have occupied her research in 2013.

Monique was instrumental in various drawing research projects in 2012-13 including *Along-side Projects* which was a collaborative, improvisational drawing performance event with Frances Hansen (School of Visual Arts, Manukau Institute of Technology), at the Blue Oyster Art Project Gallery in Dunedin. As part of the gallery's 2012 Performance Series, the artists spent four days working together in the gallery using materials sourced only from the immediate neighbourhood.

These unconventional materials with their inherent possibilities and limitations were used to create a drawing installation that evolved over the timeframe, a process which directly engaged with the conventions of drawing: generative, quick, spontaneous and improvisational. As well as drawing attention to the accumulation and disposal of waste, the artists thought about the performative possibilities of drawing, allowing the viewing public to witness the process of improvisation that took place over four days, thus making the negotiation between two artists working in collaboration, visible.

Monique also made a major drawing work as part of the Te Tuhi Gallery's *Drawing Wall Project* in Auckland. Her 'wall tattoo' was a site responsive, wall etching, cut directly into the gallery wall, continuing the trajectory of the ideas of repetition and accumulation, iteration and labour in relation to drawing.

Inspired initially by murmurations, (the phenomena of thousands of starlings in a flock, flying together; folding and unfolding, gathering, collapsing and dispersing), the imagery had the appearance of a swarm, cloud or accumulation of geometric marks, moving across the wall. This wall drawing/etching took the form of small straight marks cut directly into the surface of the wall (a few millimeters deep), with ink rubbed into the lines and sanded back off the surface. The effect is of an etching plate before printing: an embedded drawing that responds to and becomes part of the architecture and the site.







Image from the film *Dark Light*, M. O'Connor

## Unconditional Aesthetics - Crossings of Ethics, Film and Literature

(Contributed by Dr M. O'Connor)

Intersections of philosophy, film and literature mark out Maria O'Connor's research practices, opening questions concerning ethics, politics and aesthetics within art and design cultures.

Maria's various practices work experimentally across spatial and temporal relations of film and literature, aiming to determine a locus for ethico-poetic structures.

A thread binding O'Connor's writings and moving-image works has been the rigorous engagement with how sexual difference inhabits philosophical language - viz. the essay-films *Desiccations* (2010) and *Dark Light* (2013). Inasmuch as language inheres gender within our Western Metaphysical tradition, O'Connor develops aesthetic strategies for opening ways of deconstructing this inheritance. Her PhD *Ashes Without Reserve* (2008) marked such a deconstructive poetic strategy, a deconstruction of mastery itself as a grounding premise of truth, as such, and its commensurate understanding of research as the more-or-less rigorous search for an assured mastery of truth.

Her research during 2013 produced a series of book chapters and international conference papers that questioned an ethics of encounter within the fields of performance, film and writing. Her major project for that year concerned her essay film *Dark Light* (2013), a work she describes as an exploration of



animal-human relations, construed as a philosophico-aesthetic proposition in relation to an ethics of filmic encounter. The project took nine months to complete, with O'Connor taking on the conventional roles of director, writer, producer, camera operator, sound composer and editor. In this sense, *Dark Light* was essentially a solo undertaking. In the solitude of this process, O'Connor allowed for an unfolding contingency of events, confronting her own desire for mastery, through a refusal of fixed production models, attuned to an immersive and situated practice that responded to the immediacy of its events: weather, found locales, mood, light, season. Her project constituted the necessity of procedure, yet O'Connor's philosophical mandate aimed to enable material to evolve and respond in terms of her ethics of release.

For O'Connor, the filmic essay establishes a poetic dialogue between image and word as potential for a liberating and open condition arising through what film theorist, Andre Bazin, has eloquently described as a 'horizontal montage' - neither image nor discourse dominates. This genre has a potential for enabling viewers to freely cross between discourse and image, language and light.

In a somewhat paradoxical move, the aesthetic strategy for *Dark Light* aims to initially develop a struggle between language and light, confounding a capacity to negotiate between image and text. Yet, coincident with its concerns for animality - both inside and outside 'us' humans - the film slows its encounters of language and image through a carefully orchestrated un-tethering of our desire for mastery. It attempts to release us from the necessity for closing the gap between what is said, what is read, and what is seen. *Dark Light* attempts its own impossibility: to accede to not finding any discrete, saturated or closed context for meaning in relation to the image and textual correspondences, notwithstanding its apparent didactic philosophical history lessons. Ultimately, the styles of essay-films perhaps have the potential to exceed intentionality itself.

As a practice of philosophy and film *Dark Light* thus defies closure or narrative suture. With /horse/ as its key motif, its animal-word, it attests to that strange, most uncanny animality of being-human. Composed through seven discrete poetic episodes - Kant, Nietzsche,

Heidegger, Agamben, Derrida, Deleuze & Guattari - each episode inflects to the proper of a masculine tradition in Continental Philosophy, broaching a thinking of memory, nature, aesthetics, ethics and the animal, in the spoken languages of German, French and Italian. Another feminine voice acts as a spacing or interval between these episodes - a voice of sexual difference - responding to, countering and encountering the textual traces of the metaphysics of animal being.

O'Connor commissioned language scholars at The University of Auckland's Faculty of Arts, School of European Languages and Literatures, to translate her original poetic script to the native languages of the philosophers she references. She secured professional actors to deliver the voice-over texts in each of these languages, both masculine and feminine.

These multiple languages inscribe trace-structures of philosophical difference on animality and aesthetics, and performatively question the foreignness of otherness. English subtitles constitute these language encounters ironically in terms of localising English as sub-ordinate other, in a world where English has become increasingly the dominant trans-cultural and normative language.

*Dark Light* has been entered into a number of international film festivals for their 2014 programmes, including the NZ International Film Festival and will show at the following conferences:

Animal Encounters: Performance, Animality & Posthumanism (May 31st, Roehampton University, London) and International Film-Philosophy Conference 2014 (2-4 July, Glasgow).

It is also hosted on CIRCUIT Artist Film and Video Aotearoa NZ ([www.circuit.org.nz](http://www.circuit.org.nz)) with an accompanying review by Stephen Zepke, a leading philosopher on the work of Gilles Deleuze and aesthetics.



## Emergent Ecologies Lab 2013

(Contributed by A. Yates)

The Emergent Ecologies Lab (EEL) is a design research studio focusing on ecology, indigeneity and urbanism. Led by Amanda Yates, EEL produces events that perform ecological connection and speculative projects that envision a low carbon, ecologically designed urbanism particular to Aotearoa/ New Zealand.

Collaborating with partners (iwi, industry, communities, researchers, councils) EEL analyses, visualizes and intervenes in the environment. Design operates as a primary research tool enabling divergent and innovative responses. Design research projects align with undergraduate and postgraduate studios, linking emergent designers with design researchers and research partners in a co-creative process. Performance is utilized as another key method, focus and multi-modal tool that attracts, connects and communicates in playful or affective ways and publicly foregrounds research issues.

Emergent Ecologies acts as a strategic research platform from which to build a cohesive body of research outputs and research networks. A number of high profile projects were initiated during 2013 including the inaugural Oceanic Performance Biennial held at Tamaki Makarau/ Auckland's Wynyard Quarter and addressing Pacific ecologies through performance.

The event was described by *Waterfront Auckland* as bringing "beauty, fantasy, thought provoking work and a sense of awe to the Waterfront". A number of Practice-led PhD projects were initiated within EEL and two EEL Practice-led PhD workshops were held, led by Aalto University's Professor of Practice Dorita Hannah.

A dance-ecology research project, with partners from EEL, University of Auckland and Aalto University, was selected by a panel of experts for presentation at the Oceanic Performance Biennial. A collaborative eco-indigenous research project focused on Tamaki Makaurau's maunga was also initiated, with partners from the University of Auckland and a landscape designer. In addition, a chapter on urban agriculture design research was contributed to the recently published book *An Urban Quest for Chlorophyll*, edited by Jenny Gillam and AUT's Dieneke Jansen.

AUT academics and PhD researchers involved in EEL projects or events include Chris Braddock, Andrew Douglas, Sue Gallagher, Hannah Hopewell, Mark Jackson, Maria O'Connor, Fleur Palmer, Mark Pulsford, Albert Refiti, Rachel Shearer and Amanda Yates.

In 2014 The Emergent Ecologies Lab will be receiving expressions of interest for the Oceanic Performance Biennial 2015, which has been chosen as Oceanic region's representative in Performance Studies international's FLUID STATES, a globally distributed series of performance symposia and events. The Lab is also receiving expressions of interest for the Prague Quadrennial of Performance Design and Space NZ National exhibition. A research workshop is proposed for July 2014 to workshop a further iteration of the dance ecology project (Auckland University of Technology, University of Auckland and Aalto University). In the postgraduate teaching space two Honours year spatial students are working on EEL research projects focusing on sustainable building and making practices, while another EEL Practice-led PhD workshop is proposed for July 2014.



► Poster from *Oceanic Performance Biennial 2013*





• Dr Stefan Marks and the virtual environment for medical teamwork training he created during his PhD research

## Diving into “The Matrix” – Interactive and Immersive 3D Visualisation

(Contributed by Dr S. Marks)

Ever since his Master’s degree at the University of Applied Sciences Gelsenkirchen, Stefan Marks was hooked on Virtual Reality (VR). During his thesis, he brought together the separate technologies within the VR lab of the university to a fully functioning integrated system that allowed the immersive visualisation and interaction with 3D content using VR helmets, data gloves, 3D projection screens, and 3D tracked “props”.

During his PhD studies at the University of Auckland, he applied that knowledge to the design of a virtual environment for teamwork training of surgical procedures using game engine technology and supporting nonverbal communication like head gestures and facial

expressions. His research won him the first place in the 2007 Exposure Poster competition.

After the successful completion of his PhD, Dr Marks started lecturing at Auckland University of Technology on topics like Computer Graphics, Computer Animation, Game Programming, and Synthetic Realities – first in the School of Computer and Mathematical Sciences (SCMS) and now at Colab, the collaborative for Design and Creative Technologies at AUT.

Moving into the new Sir Paul Reeves building, Colab was in the unique position of being the managing facility for the new *Motion Capture (MoCap)* suite which houses state-of-the-art

technology similar to that used in industry, e.g. for the production of blockbusters like *The Lord of the Rings* trilogy and *The Hobbit*. Together with newly appointed technician Javier Estevez and SCMS(Hons) student Justin White, Stefan explores specifically the interactive possibilities that this technology can offer.

Usually, the standard pipeline of processing *MoCap* data consists of the following steps: First, reflective markers are attached to actors and props.

Then, these markers are tracked by the *MoCap* system to reconstruct 3D movements and positions of the actors. In a next step, the captured dataset needs to be “cleaned”, for example by removing jitter and reconstructing missing information. Finally, the cleaned information is fed into 3D modelling and rendering programs like *Maya* to combine the recorded activity and other models into a final movie.

However, so far, this process takes place “offline” – after the data has been captured and the actors have long left the *MoCap* studio.

Stefan’s research focuses instead on using *MoCap* data in *real-time* as this enables the users’ movements to have an immediate effect on immersive and interactive applications.

A first prototype is the visualisation of the structure and activity of an artificial neural network called *NeuCube*, developed at the Knowledge Engineering and Discovery Institute (KEDRI) under the leadership of Professor Nikola Kasabov.

With the help of the **Oculus Rift**, an immersive stereoscopic viewing device, and the capability of being able to track the position and orientation of this device down to less than a millimetre precision, users are able to literally walk into the neural network and observe, configure, and control it while it is processing data.

During an Interactive Practitioner’s *Meetup* in February 2014, all of the participants wanted to try this technology and were amazed by the ease and intuitiveness of use. None of them complained about the effects that usually accompany fully immersive VR technology, like headache or nausea. Similarly, staff from KEDRI commented very positively on how they could see that such an interactive visualisation would help them understand the structure and functionality of *NeuCube* in a much better way than previous visualisation systems that they had used.

Stefan and his team are working together with other departments and professionals like Professor Tony Robotham from the School of Engineering to find more amazing applications of fully immersive and interactive 3D visualisation technologies for the benefit of the university, students, and external industry partners



## Materialising the Immaterial: Sound and Memory as Intimate Personal Experience

(Contributed by G. van Melle)

Gerbrand van Melle is a lecturer at CoLab and a Doctor of philosophy candidate whose primary supervisor is Professor Ings.

In the project that forms the site of Gerbrand's creative, practice-led thesis, personal audio recordings are translated into intimate physical experiences. In so doing, the potential of visual music<sup>1</sup> and Second Order Cybernetics<sup>2</sup> are used to develop a new experience that synthesises sound and visual components into material form. In this "aesthetically potent environment", the research engages with sound visualisation, sampling methods, and generative design practice.

The idea explored in the thesis is that objects are continuously changing processes in time. Through parallel iterations of sound recordings, sound spectrum analysis, generative model making, and materialising methods, temporarily intimate representations of the world around surface and are re-composed. The design acts as a provocation; its purpose is to trigger an audience to consider the potentials of personally significant sound as a form of unique, material user experience.

Gerbrand's thesis contributes to knowledge on a number of levels. However, beyond its technological dimensions, its significant contribution is a proposal that design is a circular process operating inside the paradigm of Second Order Cybernetics. Here the designer operates alongside the design and co-creators. Gerbrand proposes that design need not be driven by a fixed question.

Rather it may be seen as an environment in which one pursues an idea and its potential. By adopting the Second Order Cybernetics paradigm the designer no longer operates as a discrete agent who moves the design in a linear direction from a set starting point.

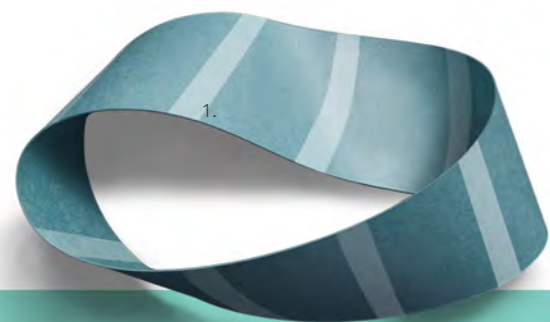
Designers nowadays are faced with applying more than craft-focused solutions. Their outbound and inbound skill set has become more intrinsically part of the solution.

This design research project explores new ways of sense making of a "fuzzy and ambiguous" world of media experiences, and as such it requires a mastering of unframed challenges, as opposed to mastering framed challenges. Cocreation is not a linear process. The design is defined by strategically linking inputs where one sample of expertise is joined to another. The intersections (synergies) are as important as the essence of each input. Gerbrand samples, combines, generates, regenerates, evaluates and begins again.

Gerbrand intends to continue his investigation into the cocreative possibilities of transmodal design. Throughout his research he encountered domains that overlap with his project, such as generative design methods, patterns, ecosystemic organisations and digital and analogue ontology. His considerations of the potential of Second Order Cybernetics will hopefully continue to support new approaches to his design work, in which systemic circular feedback loops will locate the inner and outer self within a system. The realisation that "everything is in some sense constantly interacting with everything else" is a fruitful observation as it opens the mind to inner clarity and outer complexity.

In this world he intercepts, deciphers and distributes. Objects are processes. Matter is energy. Memories are expectations.

1. Visual music is a means of converting music to images using a system or set of rules that can be implemented as a machine or computer code (Friedlander, 1998, para. 8).
2. Second Order Cybernetics refers to the cybernetics of observing systems (Von Foerster, 1975). In this paradigm there is no longer a separation of the goal and system from the observer (Glanville, 2004).



3D printed ambient sound loop



Exhibition, detail. Photo by S. Marks (2013)





• Lyn Barnes

## Trauma Journalism: Preparing Graduates for Covering the Inevitable

(Contributed by L. Barnes)

Lyn Barnes' research focuses on the unenviable task of reporting death and the consequences of this, be it the impact on the journalist, the family of the victim or witnesses of a given event.

Many journalism graduates confront death within weeks of completing their course. For some novice journalists working in news, interviewing the grieving and dealing with trauma is now part of their day-to-day work. There are two reasons for this: the increase in stories related to death in the media, and the fact that younger people cover the grisly court cases or accidents which, in the past, were the responsibility of senior, more experienced reporters.

Death sells news, whether because it is cheap content, or because death has become more visible in recent years. Even stories relating to the threat of death or near-death can make

the front pages these days. Whether this has anything to do with more sensational content in news is irrelevant – the fact remains that inexperienced journalists are now on the front lines. However, unlike police, ambulance or fire crews, journalists are seldom debriefed, and often the most preparation they get is on the ride to the scene.

It has almost become a rite of passage for graduate journalists who work in news to do what is called a "death knock" within their first 12 months on the job. That involves contacting the next of kin after a death to find out more about the person. Research shows that if journalists do not have the necessary skills or ask inappropriate questions, they can revictimise the victims. It is also a fact that the cumulative effect of dealing with trauma on a regular basis can take its toll on journalists if

they do not know how to deal with it in a positive way.

While much research has focused on war correspondents or disaster reporting, there has been little on everyday journalists, which is where Lyn Barnes has focused her research.

"It was after the Christchurch earthquake, while talking with a graduate about how hard it must have been for some of the journalists who covered the disaster, when this young woman, who was working on a Sunday newspaper, said: 'Fair enough, but what about us, we deal with trauma every day.'" It hit a chord with the journalism teacher, who has worked in newspapers, radio and television but more recently in magazines.

Lyn's initial research was recognised by the Dart Centre for Journalism and Trauma, which is based at Columbia University in New York. She was one of 14 Fellows selected from around the world to attend an intensive course on trauma literacy at the prestigious journalism school.

The Dart Centre's philosophy is that all journalism students should be prepared for the unexpected, not just those who join news teams. The fact that most of the initial reports from the 9/11 terrorist attacks on New York were generated by fashion writers confirms this, as it was Fashion Week in Manhattan.

Since returning from New York, Lyn has integrated role-play into the third-year and post-graduate journalism courses as a safe way to practise how to interview traumatised people. Actors who work with the Auckland Medical School have proven to be ideal, as they know how to react with a range of emotions and responses, which often catch the students off guard. As Lyn says, "It's better than practising on the public – and potentially giving journalists even more of a bad name."

Role-play, or experiential learning, is an established model of teaching and learning that has been introduced to a range of disciplines including education, medical and nursing training, law and social work. Role-plays can offer a safe and cost-effective way for journalism students to learn how to approach and interview victims. Thanks to support from her colleagues, in 2013 Lyn was given a \$5000 grant to further her research into role-play and trauma training. She presented a paper *Preparing journalists for the inevitable* at the 4th Global Conference on Trauma in Prague in March 2014.

Currently, trauma training is not considered a necessary skill in New Zealand journalism schools. Most New Zealand journalism schools (there are 10 in NZ) adhere to the industry-based New Zealand Journalism Training Organisation (NZJTO) guidelines.

Most journalism courses tend to focus on practice-based skills. Lyn believes it's time to introduce more reflective learning into journalism, starting with trauma training. She supports American journalism educator Nerissa Young in her argument that journalism schools have an ethical responsibility to teach trauma skills.

"While journalism schools spend a lot of time teaching leads, interviewing skills, video editing and database search, it is imperative that educators take time to talk about the emotional aspects of telling the world's worst stories."

This year Lyn is teaching part-time so she can concentrate on her PhD research, which focuses on how novice journalists deal with trauma. She hopes the outcome will produce further advice for graduates when dealing with the unexpected.



## Global Communication and Collaboration

(Contributed by A. Gordon)

The recent progress in communications technology means more information travels faster and further than ever before. Therefore the reputation of a multinational organisation can be affected by both local issues and global issues and, as a result, there is a huge growth in worldwide public relations programmes.

These programmes demand international expertise and are increasingly delivered by global virtual teams, that is people dispersed in time, geography and culture who can work collaboratively and interdependently, communicating through technology.

Averill Gordon developed an interest in global virtual teams when she led the international healthcare division at Weber Shandwick, a London-based public relations consultancy. This involved directing global virtual teams to deliver public relations programmes ranging from heart disease prevention in Europe to creating global risk management guidelines for pesticide organisations.

Later, when she set up the public relations degree at the University of Gloucestershire and while writing *Public Relations*, a textbook recently published in the UK by Oxford University Press, she recognised the increasing demand for public relations graduates to understand how to work in global virtual teams.

Consequently she became involved in co-developing *GlobCom*, an international collaborative project ([www.globcom.org](http://www.globcom.org)), with academics and public relations students

from universities around the world. Auckland University of Technology was included when Averill returned to New Zealand in 2010.

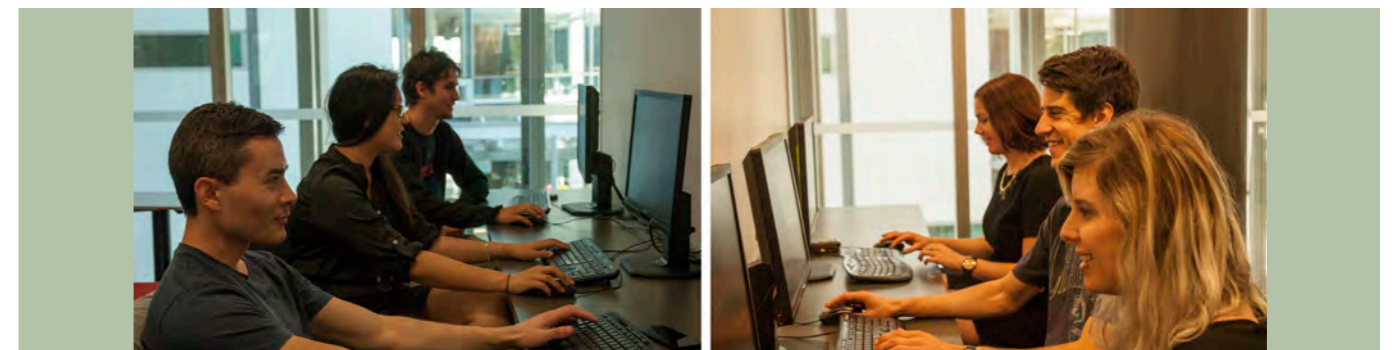
The annual *GlobCom* project now brings together senior public relations students from 12 universities in 12 countries across five continents (Australia, Chile, Germany, Italy, India, New Zealand, Portugal, Russia, Spain, UK, United Arab Emirates and the US) in an authentic learning experience which prepares them to be practical and effective global PR practitioners. The venture involves a live industry brief and requires an international communications strategy to be developed under real time challenges by student global virtual teams. The clients have included Zeiss, Airbus, Abu Dhabi Music and Arts Festival, General Electric, Cognis and the City of Stellenbosch. Each year more than 100 public relations students are divided into 10-12 competitive virtual teams comprising around three students from each university in one team. These teams interpret the brief from an international organisation and, led by their elected student team leader, work in virtual meetings to develop a PR proposal. The lecturers from the participating universities form their own single supervisory virtual team to guide the student teams.

Students develop their international PR skills, build lifelong friendships across 12 countries and contribute towards building a greater practical and theoretical understanding of global virtual teams. At the end of the project students have an opportunity to meet their team members in person and present their proposals at a global research conference hosted by one of the participating universities, supported by the participating client.

Students are challenged by the project, particularly by the different standards of English, the varying time zones, organisational issues, diverse cultures, lack of face-to-face contact and other constraints of online communication. The team leaders face further difficulties in monitoring performance,



▶ Averill Gordon



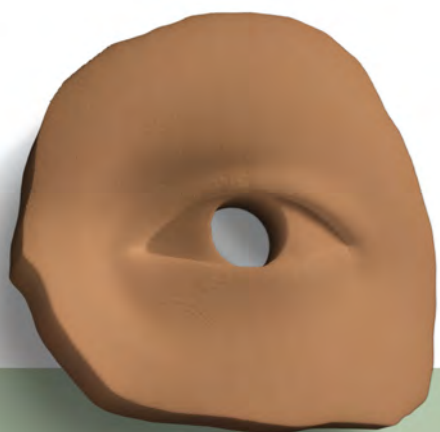
▶ Students chat on google+

influencing members, developing trust and creating a collective team identity as well as ensuring coordination.

Averill's additional role as the global team mentor allows her to collaborate with the participating lecturers and students to carry out action research which seeks to understand the complex social phenomenon of leadership patterns in virtual teams, as well as improve their practice and sustainability. This contributes to the need for leadership studies in authentic settings as the project is carried out on a real-life task. Although there are multiple leadership possibilities in this project, the study

uses leadership theory to focus on the leader within each student team and the lecturers within the supervisory leadership team.

Averill's full research project will be published in her forthcoming PhD thesis and has led to conference presentations in New Zealand and overseas as well as grants from the Centre for Learning and Teaching at Auckland University of Technology, journal papers and collaborative social media projects within the university.







• Multimodal interaction: Sigrid Norris (left); Family interaction through Skype (right)

## Multimodal Research Centre: From Babies on Skype to Religious Practices in Thailand

(Contributed by Associate Professor S. Norris)

Everything we do requires us to act in the world. These actions are the focus of the Multimodal Research Centre (MRC). Opened in 2009, the Centre has gone from strength to strength developing a strong research base and gaining international recognition. Research has included topics as diverse as religious practices, advertising, branding, extreme sports, business coaching, teaching, identity, and most recently how babies use Skype.

Researchers at the MRC start with an interest in social action, or what, why and how people do things. From here many different topics can be tackled. Sigrid Norris, the Director of the MRC, has a strong focus on theoretical and methodological excellence, which means that the tools to collect, analyse and present data are constantly developing. The field of multimodality is growing rapidly, and the MRC attracts a wide range of students and staff. Sigrid has established a reputation for empirical, methodological and theoretical work

spanning the full breadth of interdisciplinary studies, bridging linguistics and communication studies, sociology, anthropology, cognition and psychology. Working at the interface between individual, society, science and technology Sigrid is the founder of the methodology multimodal mediated (inter)action analysis, where verbal and non-verbal actions converge with tool use and the environment.



Sigrid Norris is also the Editor-in-Chief and founding editor of the international journal *Multimodal Communication*. The journal was first developed and published by the MRC, and after two years and only five issues the journal

has been picked up for publication by the large international academic publisher de Gruyter Mouton ([www.degruyter.com/view/j/mc](http://www.degruyter.com/view/j/mc)).

This is a major development for the journal and the centre but also, and most importantly, for the fast-growing field of multimodality throughout the world.

### Babies on Skype

The Babies on Skype project started life as pilot research and has now broadened out into the fully-fledged research project called *Video-conferencing: How is family interaction changing?* The project is now funded by the Digital Mobility Research Group of the New Zealand Work Research Institute at Auckland University of Technology. The question of how family interaction is affected by video conferencing, especially when this technology is enhanced by ultrafast broadband, is posing some challenging research questions. The research is generating new theoretical insights as well as giving us a glimpse into New Zealand families as they are interacting with and through technology. Sigrid notes:

"Skype hosts the interaction of as many as 30 million people at one time. Its services, some free and others fee-based, are especially valuable to fragmented families. Besides Skype, other video conferencing technologies such as Google hangout and FaceTime are popular, and all are available on different platforms from desktops, laptops, and tablets to smartphones, allowing families to enforce and re-enforce family identities and values".

Using the multimodal methodology *Multimodal Mediated (Inter)action Analysis* developed by Sigrid in the past 15 years, four specific questions are being addressed:

1. How does video conferencing affect interaction within families with young children?
2. How are children using the technology?
3. How is interaction changed as children and adults are deprived of some forms of touch (e.g. hugs) and smell (body odour/perfume)?
4. Do families with young children display intercultural similarities and/or differences when interacting through technology?

Researchers currently working on the project are Jesse Pirini, Boonya Makboon, and Sigrid Norris, as well as Dr Jarret Geenen, who graduated in 2013 with a PhD. As the project is broadened, Dr Bryn Evans from the School of Communication Studies and Dr Antonio Diaz

Andrade from the Faculty of Business and Law are joining the team. First findings will be presented at the World Congress of Applied Linguistics in Brisbane in August 2014, where Sigrid and Jarret will speak about how babies learn to show (and sometimes tell) when skypeing with relatives.

### Some PhD Highlights

Recent PhD graduate Dr Jarret Geenen started in the early days of the MRC and knew he was interested in what people do, but wasn't yet sure how to position his study. He ended up following his interests and doing some in-depth work on extreme sports, focusing on kite surfing. The outcomes of the thesis were far-reaching for the fields of communication, interaction, human action, human geography, emergent technologies, and investigations into lifestyle sports; and as a result, he is now teaching at the University of Amsterdam in the Netherlands.

Boonyalakha Makboon is currently writing her thesis taking a multimodal view on identity production. Her recent article *The Chosen One: Depicting religious belief through gesture* is currently the number one of downloaded articles in *Multimodal Communication*.

Jesse Pirini is currently collecting and analyzing data, examining object-use in high school tutoring sessions with a focus on Knowledge Communication. He will soon visit the Knowledge Communication group at Aarhus, Denmark, and present his first analyses at their conference on multimodality and knowledge; and, as soon as he returns, he will present some of his findings at a conference in Wellington.

### Where we are

Since the start of 2014 the MRC has been based in WT607, an open collaborative space in the refurbished AUT Tower. With international and national scholars set to visit and provide input into various projects, and the field growing tremendously across the world, now is an exciting time to be involved in multimodality.





► Presentation at AUT's Media Centre, in the new Paul Reeves Building

## Developing an Inclusive Journalism Agenda

(Contributed by Associate Professor V. Rupar)

The power of media to foster social and cultural diversity has been widely discussed in journalism studies scholarship, but not so much in journalism education. Verica Rupar's current research project is attempting to address this issue.

When it comes to incorporating the idea of inclusive society into the curriculum, universities fall short of offering models that future journalists can use when reporting on diversity issues.

This is about to change, thanks to the new mobility project *Inclusive Journalist Initiative: Reporting Europe and Asia Pacific* run by the School of Communication Studies.

This international project brings together four schools that offer a cutting edge journalism curriculum: Auckland University of Technology, University of Canterbury, Danish School of Media and Journalism and the Swedish School of Social Science at Helsinki University.

"We are re-designing curriculum and we are developing collaborative research that will focus on journalism that is reflective and sensitive to difference", says Associate Professor Verica Rupar, head of the journalism programme at Auckland University of Technology. "The idea is to bring to students' attention examples of unethical reporting on ethnicity, religion, indigenous people, immigration, economic insecurity, and multiculturalism, and to help them develop ethical and socially responsible practices".

The project, funded by the European Union and Education New Zealand (\$390,000 grant shared between AUT and University of Canterbury) aims to address the challenges journalism faces in the increasingly globalised world.

"The cosmopolitan perspective on the world is much needed in journalism education. Students learn to use journalistic tools to increase dialogue and to get an access to groups of people who are not reached by mainstream media and traditional media formats. We support students' ability to navigate in the paradigm shifts where the use of social media for example plays an important role in reconnecting news organizations and citizens," she says.

*Inclusive Journalism Initiative* is supported by media organisations in Europe and New Zealand. Maori TV and Radio New Zealand back the initiative and a number of other news providers have expressed interest in the programme.

The grant allows development of collaborative research that explores the idea of inclusive journalism, journalism for all and of all. Verica's research interests in inclusive journalism cross national boundaries; in a number of recent projects she has explored how the choice of news sources and the old definitions of "good" journalism - realistic, independent and detached - resonate in comparative context.

"Journalism is the central route by which people learn about others beyond their immediate life world. It is a common knowledge that societies based on exclusion have a tendency to fail as states but it is less known that the existence of democratic institutions does not necessarily bring a diversity of voices in the public domain.

Media are crucial there. As one colleague argues, even in the most democratic societies voices which appear in media are less diverse than ballots in the least developed societies", she says.

"Among the prerequisites for inclusive society - respect for all human rights, freedoms, a rule of law, the existing of strong civic society

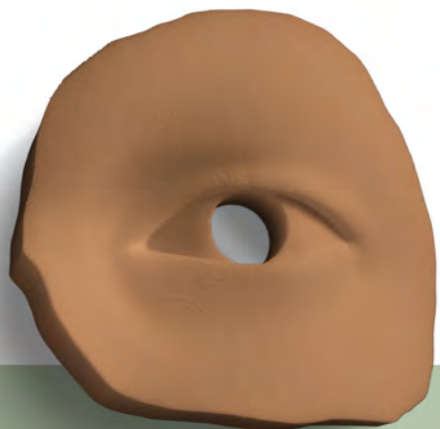
- an equal access to public information and tolerance for cultural diversity education plays a critical role. It provides opportunities to learn the history and culture of one's own and other societies, which cultivates the understanding and appreciation of other societies, cultures and religions. The 'inclusive society' implies a radical set of changes through which society restructures itself to embrace all of its members", she says.

In 2012 Rupar led an international project on reporting ethnicity and religion in Europe, commissioned by the International Federation of Journalists, Article 19 and Media Diversity Institute and funded by the European Commission. The report *Getting the facts right: Reporting ethnicity and religion* went to 2000 newsrooms across Europe and is now used as a guideline in reporting diversity. Developing inclusive journalism curriculum is one of the recommendations from this report.

Others include knowing anti-discriminatory legislation, using a broader network of expert sources, putting facts in context, portraying people as human beings instead of representatives of ethnic, religious and other social groups, creating a culture of tolerance within and outside of newsrooms.

Verica Rupar's publications include publications on media and environment, media and politics, journalism and meaning making, journalism form and style, foreign news reporting and journalism practice in various countries she lived and worked in: Serbia, Slovenia, Hungary, Australia, UK and New Zealand.

She also serves as an academic consultant for the London-based Media Diversity Institute and has been involved in the development of an inclusive journalism curriculum at universities in Morocco, Egypt, Tunisia, Indonesia and Macedonia. She is working on a book project on inclusive journalism and is participating in the international projects *Worlds of Journalism and Journalism Students across the Globe*.







▸ Professor Jeffrey Hunter

## Research in Markov Chains

(Contributed by Professor J. Hunter)

Professor Jeffrey Hunter conducts research in the area of applied probability – the mathematical aspects of the application of probability to problems in the sciences and engineering. With both a PhD in Statistics and a DSc in Applied Probability, his research in the last two years has focused both on improving ways of computing key properties of the models used by practitioners as well as understanding some of the unexplained phenomena present in stochastic modelling.

One of the biggest technological advances in recent times has been the advent of very efficient search engines on the World Wide Web. The “PageRank” procedure used by the Google search engine (named after Larry Page, one of the developers of Google) is based very much on the properties of the underlying interconnection of web pages. These interconnections can be modelled by a massive Markov *chain* whose states are nodes or internet pages. Transitions between nodes or pages in the web are dictated by the links from each page to other pages. The

importance of any particular page is determined both by the number of links to that page as well as the number of links from that page to other pages. When one searches on a particular topic, the Google algorithm effectively calculates the importance of related pages by ranking them according to the “stationary distribution” of a *Markov chain*. This is done in a very efficient manner. Damping of the original chain is utilized (based on the concept that a surfer who gets bored after several pages switches to a random page, equally likely to be chosen from all possible pages) with the whole calculation being carried out in an iterative manner. This ensures that the algorithm converges very quickly to the stationary distribution, whose entries represent the likelihood that a person randomly clicking on links will arrive at this particular page after a large number of clicks.

In some of Professor Hunter’s recent research he has explored a number of different mathematical and computational techniques to find stationary distributions of general Markov

chains, extending this to finding the expectation (i.e. the “average” or “mean”) and higher moments (such as the “variance”) of the time for a first passage from any one state (e.g. a page in the web) to any other state. The long term behaviour, as represented by the stationary probability of being in a particular state, and the first passage times between states are key variables of interest in studying and using Markov chains.

One key result that Professor Hunter has been considering recently concerns a new constant, *Kemeny’s constant* (named after a pioneer in Markov chain theory) in that the sum, over all states  $j$  of the Markov chain, of the stationary probability of being in state  $j$ , times the mean first passage time of the number of transitions starting from a given state  $i$  to state  $j$ , is a constant that does not depend on state  $i$ , the starting state.

Professor Hunter has given a number of mathematical proofs for this result, considered a number of special applications and obtained bounds on its value. He has shown that it represents the expected time to “mixing” in a *Markov chain*.

However, to date, no one has given an intuitive reason why this expected value should be a constant. In the context of the Internet, the constant represents the number of links a random surfer will make from his/her home page to his/her final destination. (This observation has previously been published in the literature).

Professor Hunter has spoken on *Kemeny’s constant* at a few international conferences as well as giving a number of invited talks to Mathematics and Statistics groups at universities around the world.

He has shown that the *Kemeny’s constant* has applications to random walks on graphs, to electric networks and is related to other known constants in the aforementioned fields. A research paper on his findings has been published in *Communication in Statistics: Theory and Methods*.

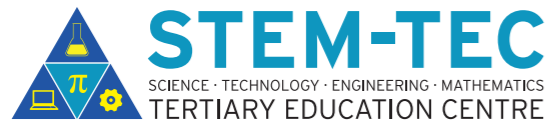
He is currently working on computational procedures for key properties of *Markov chains* based upon “perturbations” when small changes are made to a small number of underlying probabilities defining the behaviour of the Markov chain.

This leads to more efficient updating of the properties, and is of relevance in an application setting, e.g. for the Google algorithm, where typically small changes occur to the web over a short period of time, and updating is required on a regular basis.



## Introducing the New Centre

(Contributed by Associate Professor S. Klymchuk)



In 2013 a new centre was established in the DCT Faculty – Science, Technology, Engineering, and Mathematics Tertiary Education Centre (STEM-TEC). STEM is a group of inter-related subjects that are crucial for the knowledge economy, prosperity of the country and sustainable development of an increasingly scientific, information and technological society. The STEM acronym was first introduced in the US. Currently, according to the National Science Foundation, USA it constitutes: Chemistry, Computer and Information Technology Science, Engineering, Geosciences, Life Sciences, Mathematical Sciences, Physics and Astronomy, STEM Education and Learning Research.

Founding Director of the STEM-TEC Centre Associate Professor Sergiy Klymchuk says: “Including STEM education research in the traditional STEM disciplines reflects the significant value of educational technologies for the STEM subjects. Indeed, better education in STEM subjects leads to stronger economy.”

The STEM-TEC Centre is situated within the Faculty of Design & Creative Technologies which houses the Schools of Engineering and Computer and Mathematical Sciences. This positioning reflects the centre’s focus on the very particular pedagogy (approaches to learning and teaching) of the STEM subjects.

Thus it addresses such specific sub-disciplines as Mathematics Education, Computer Science Education and Engineering Education

These disciplines typically combine a strong theoretical base, an applied problem solving or professional dimension, and an often cumulative and sequential progression of knowledge. Thus understanding critical concepts, design of meaningful sequences of study, inquiring into how best to motivate student learning, address issues of inclusion/exclusion, build problem solving skills and engender strong communities of practice in the disciplines are all challenges. The belief of the researchers in the centre is that a close link between their research and teaching disciplines is vital. This closeness to the discipline helps build stronger insights into how best to educate their students in specific STEM topics informed by an in-depth knowledge of the subject area and its culture.

In 2012 the New Zealand government identified the need to increase the undersupply of students studying STEM subjects as a priority for delivering its Business Growth Agenda ([www.mbie.govt.nz](http://www.mbie.govt.nz)). The current mismatch between STEM skills and knowledge of the youth population points to the need for ongoing innovation and development of STEM education programmes to reduce this gap. The retention rate in STEM subjects is estimated to be 43% in New Zealand. Increasing the retention rate would help narrow the gap in the unmet demand in STEM graduates in industry and potentially increase the country’s GDP. Building the capability of tertiary STEM education to quickly align the level of tertiary skills with future industry demand will bring with it pedagogical challenges that require innovation from tertiary STEM tertiary educators. It is anticipated that the newly established STEM Tertiary Education Centre can provide leadership in building this capability. The focus of the Centre is on universities and institutes of technology and polytechnics (ITP sector) while other similar centres (University of Auckland, Waikato) focus mainly on schools.

So why Auckland University of Technology? AUT’s applied research focus in the technology



▸ Sergiy Klymchuk



sector, together with education programmes aligned to industry is well respected and internationally recognized.

Also, AUT is the only university in New Zealand that has the word 'Technology' in its name emphasising its commitment to enhancing STEM education. In its Building Innovation report (August, 2012), the Government identified AUT's research capacity in STEM areas as part of the innovation ecosystem in developing the knowledge base for economic growth. The University already has a strong legacy in STEM education research having hosted a number of international conferences in engineering education, mathematics education and computer science education together with a significant wealth of experience and expertise in STEM education and research across the university.

This is demonstrated by the current research publications and grants, teaching awards and curriculum development. The Centre aim is to bring together STEM educators and researchers from AUT and support STEM education by facilitating collaboration at the university level, and supporting STEM teaching and learning at the ITP sector and schools. The synergy of the created environment will help enhance the quality of STEM education at AUT University and establish this Centre as a leader in New Zealand STEM tertiary education.

Our mission statement is to increase the number and improve the quality of STEM graduates for the New Zealand knowledge economy.

**We aim to achieve this by:**

- Conducting high quality research in STEM education
- Implementing best pedagogical strategies in the teaching and learning of STEM subjects
- Ensuring equity and creating opportunity via social and community engagement

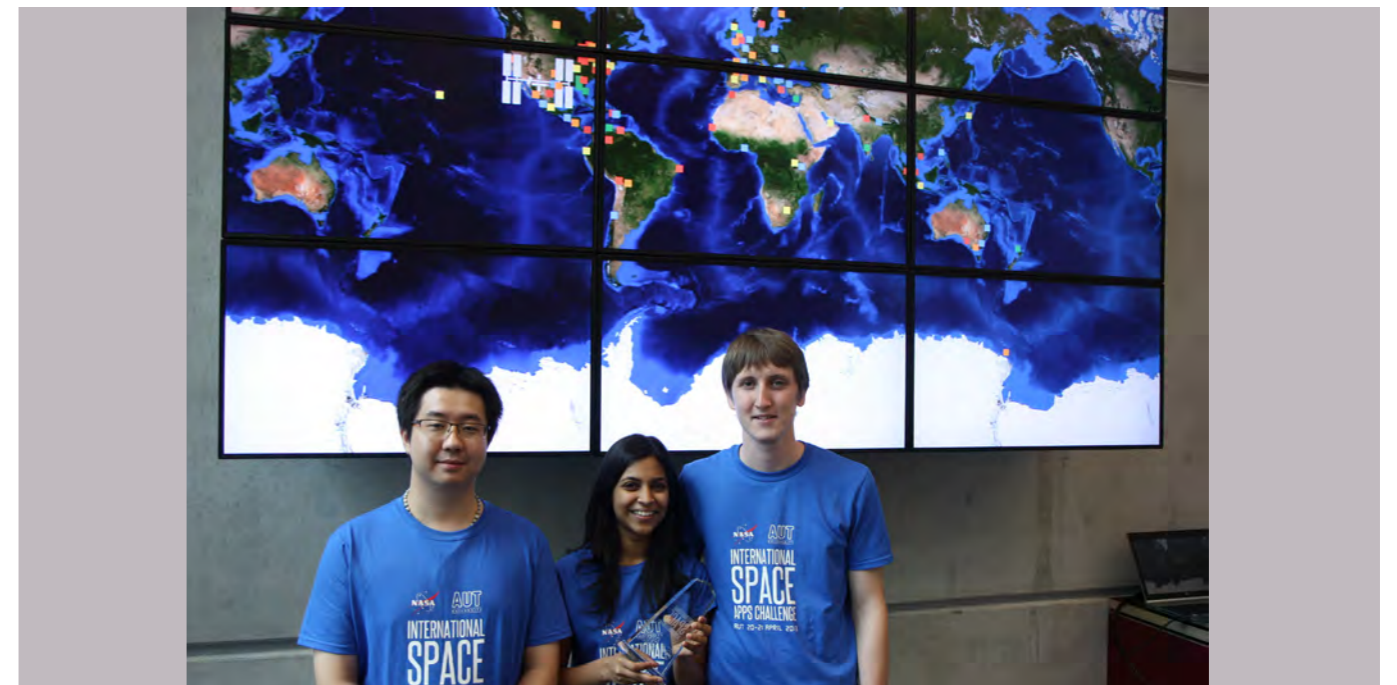
**The Centre has identified the following three main themes with subordinate projects:**

- *Increasing the retention rate in tertiary STEM programmes through enhancing flexible learning based on digital technologies*
  - Doctoral Project – Pen-enabled Teaching and Learning: Enhancing the Student Experience in STEM disciplines in a Tertiary Environment

- Project – Strategies to Transition Students into STEM Programmes
- Project – Effective Strategies for Teaching Statistics to Non-Specialists
- Project – Computing for the Social Good
- *Enhancing the growth of elite tertiary STEM students through targeted innovative pedagogical strategies*
  - Project – Involving Top STEM Students in International Olympiads and Competitions
  - Project – Effective Teaching of Mathematical Modelling and Applications to STEM Students
  - Project – Developing Digital Resources of Puzzles, Paradoxes, Provocations and Sophisms in STEM Subjects and Investigating their Impact on Enhancing STEM Students' Critical Thinking and Analytical Abilities
- *Improving entrepreneurial skills of tertiary STEM students through establishing creative environment for informal extracurricular activities*
  - Project – Establishing the STEM Students Entrepreneurs Club to facilitate mentoring and assistance to start-up businesses based on innovations in STEM.

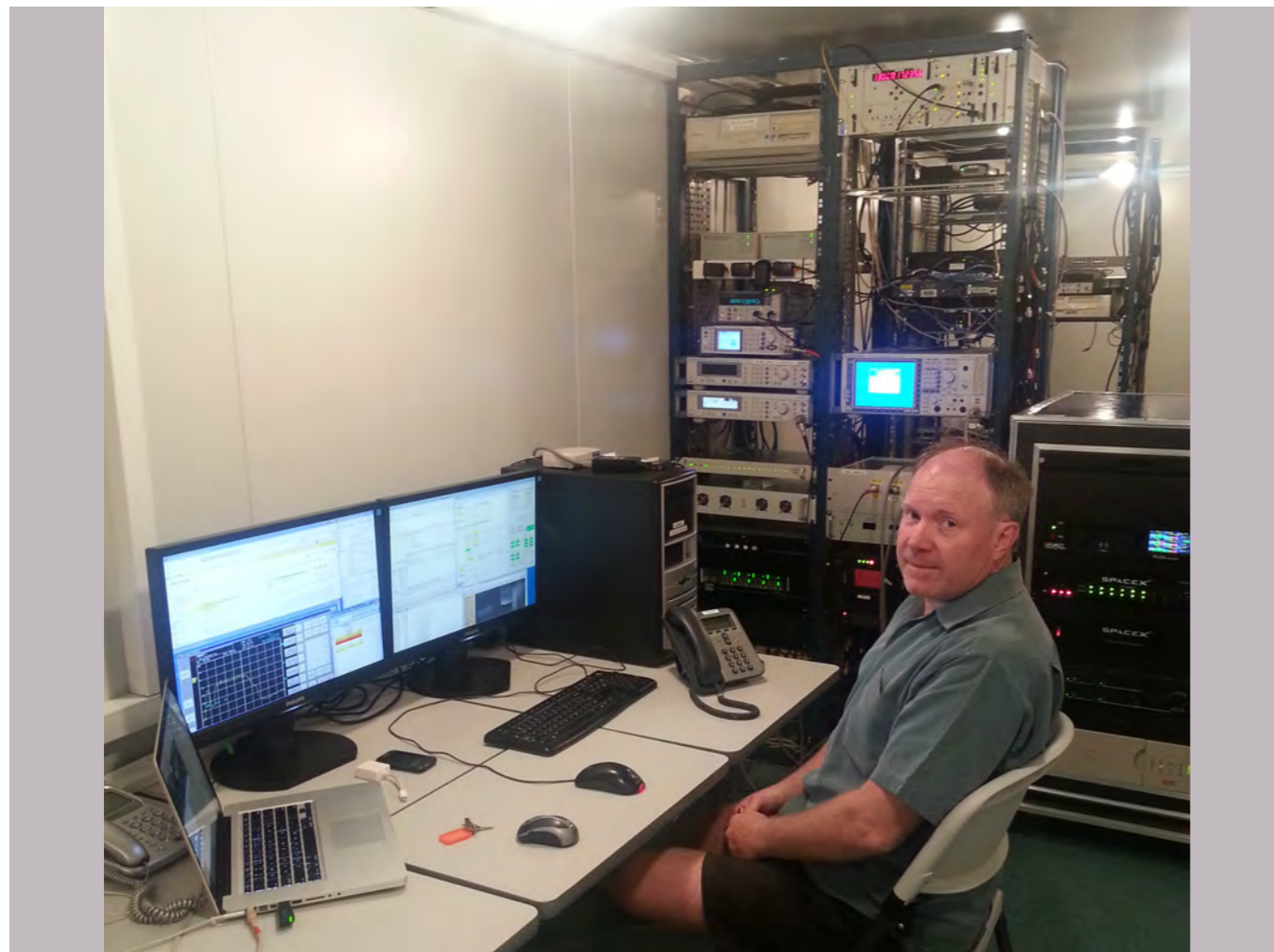
Currently, the Centre has 21 associates from three faculties, most of whom combine research in their discipline (e.g. engineering, applied science, astronomy, mathematics, computer science, etc.) with interest in the pedagogy of the discipline. It could include scholarship of teaching and learning, developing innovative educational resources, arranging extracurricular activities or formal research in their discipline education.

The Centre has already established a number of partnerships with similar centres both nationally and internationally, such as Community for Undergraduate Learning in the Mathematical Sciences, University of Auckland; Centre for Science Education, Aarhus University, Denmark; Gottlob Frege Centre for Engineering Education, Wismar University, Germany; Computing Education Research Group, Uppsala University, Sweden and other centres. The website of the Centre [www.stemtec.aut.ac.nz](http://www.stemtec.aut.ac.nz) is currently under construction and an official launch of the Centre is planned for mid-2014.



- In 2013 an AUT computer science team won New Zealand's first ever NASA Space Apps Challenge with a mobile phone application that allows users to share their sightings of the International Space Station.





▶ Tim Natusch

## Radio Astronomy, MicroFUN, and Many More...

(Contributed by Professor S. Gulyaev)

AUT's Institute for Radio Astronomy and Space Research (IRASR) operates the Radio Astronomical Observatory at Warkworth and contributes to research in radio astronomy, astrophysics, geoscience, and space exploration. Some IRASR staff are also involved in an even wider scope of astronomical research, including optical astronomy. For example, the Institute's Deputy Director, Tim Natusch is actively involved in the search for exoplanets (extrasolar planets, that is planets outside the Solar System) using optical telescopes.

As a member of a very successful international group called the *Microlensing Follow-Up Network (MicroFUN)*, he is a co-author of publications that reported on discoveries of the first Jupiter-Saturn planetary system orbiting another star, of several Earth-like exoplanets, and recently on the discovery of a binary stellar system with a planet orbiting one of the components.

Overall, Tim has more than 200 publications, including those in very high rank journals, such as *Science*, *The Astrophysical Journal*, *The Astronomical Journal*, and *Astronomy and Astrophysics*.

Tim Natusch was a co-founder of the Centre for Radiophysics and Space Research, which was launched in 2004 and in 2008 became the Institute for Radio Astronomy and Space Research. Tim played a pivotal role in the first trans-Tasman VLBI (Very Long Baseline Interferometry) radio observations conducted with a small 6-m radio telescope in Karaka (South Auckland).

He participated in the construction of the 12-m radio telescope near Warkworth - the first professional radio telescope in New Zealand - and has been involved in supervising its operations. Currently Tim is working with the IRASR team on the preparation of the big 30-m radio telescope for its "First Light". Two years ago Telecom New Zealand handed over the 30-m satellite station to AUT

University. It took two years for the IRASR team to convert this telecommunication facility to a world-class radio telescope, one of the biggest in the Southern Hemisphere. It will be extensively involved in the study of star formation in our galaxy, the Milky Way. Working both as a single dish and in VLBI mode, it will be sensitive to the spectral line of the cosmic maser of the molecule of methanol. Methanol is a very important indicator of certain phases in star formation and this could enable the determination of the physical conditions near young stars and protostars.

Tim's research interests also include the area of space geodesy. New Zealand is located on two colliding tectonic plates, the Pacific and the Australian plates, which causes a variety of tectonic activities such as earthquakes and volcanism. Radio astronomy provides a unique method for studying tectonic plate motion. As Warkworth is located on the Australian tectonic plate, working jointly with Australian radio telescopes and using the VLBI method, radio astronomers can study intra-plate deformation of the Australian continent and the whole Australian tectonic plate.

First results of this study, where the time series of two years of observation have been processed and analysed, were reported at the International VLBI Service for Astrometry and Geodesy (IVS) General Meeting in Beijing in the beginning of 2014. The study shows statistically significant seasonal deformations of the continent with amplitude of about 10 mm. The IRASR dream is to build a radio telescope on the Pacific plate, that is in the New Zealand South Island, for example in Southland. Working together, two New Zealand radio telescopes based on different tectonic plates would provide very important information on the processes that govern the geological activity of the New Zealand subcontinent.



## Health Informatics

(Contributed by Associate Professor D. Parry)

Associate professor Dave Parry has a vision of a world where mistakes are designed out of systems. He is the director of the RFID Applications laboratory (AURA) at Auckland University of Technology which is dedicated to understanding and analysing human activity to reduce errors and increase efficiency and even happiness.

Radio frequency identification (RFID) is a relatively old technology that has recently matured so that RFID tags are now in your HOP card, on your luggage sticker and even in banknotes.

Health informatics utilises RFID and aims at reducing error that could occur when complex tasks are performed by health professionals. Researchers at AURA have looked at identifying the correct syringe to use during operations, tracking the movements of anaesthetists in the operating theatre, finding lost patient notes and even your glasses.

The aim is not to be “big brother” but to have a toolkit of devices and computational techniques that can support analysis of risky situations, and if necessary replay them to identify where errors can occur and ultimately warn of potential danger. Privacy and ethical use of the technology is paramount as AURA looks for the risks in systems not people.

Dave’s work has mostly come from his Health informatics background which is broadly the study of the use of information and computing in healthcare. Dave first worked in health IT

when he came to New Zealand 20 years ago, and moved on to teaching on the world’s first online course in Health informatics at the turn of the millennium. His research work is concerned with using computational intelligence techniques to take data from a constellation of cheap and ubiquitous sensors and analyse it.

As the world moves towards an “Internet of Things”, the sensors will change, but the need to understand data and put it into a humanly-useful context will not.

New Zealand is a great place to do Health Informatics research for a number of reasons. New Zealanders are “early adopters”, and NZ has long lead the world in adoption of computers in healthcare. New Zealand health software is being sold round the world and the government has placed informatics at the heart of the efforts to reduce the burden of aging population and disease.

Dave spent some time in Bhutan on a medical training project and the concept of “gross national happiness” (coined in that country) informs his work. He collaborates extensively with health organisations and industry around the region and the world, as well as within Auckland University of Technology and the academic sector. He leads the new Master of Health Informatics programme at AUT South Campus, which is the first programme in New Zealand designed to train the technical experts who will develop a new range of healthcare applications and systems.



• Dave Parry in the RFID Applications laboratory (AURA)





▸ Visualisation of data streams

## Data Stream Mining

(Contributed by Associate Professor R. Pears)

Associate Professor Russel Pears' primary research interest is in mining large streams of continuously arriving data which is a sub-discipline within the general machine learning area.

Over the years Russel has engaged in academic research as well as undertaken consultancy work in industry involving many different applications of data stream mining.

Within Auckland University of Technology he works closely with Professor Kasabov from the Knowledge Engineering and Discovery Research Institute.

He also has close collaboration with research teams from the University of Auckland, University of Waikato and the Yahoo! Research lab in Barcelona. Russel has published widely in top-tier conferences and journals in the data stream mining area.

His most recent contribution in 2014 is a paper on change detection in the *Journal of Machine Learning* published by Springer which is widely considered to be the premier journal in the discipline.

During the last decade there has been considerable research interest in data stream mining due to the upsurge in the availability of high speed computer networks. Numerous examples of data streams exist, including: streams of packet data in a computer network, satellite data covering terrestrial events of

interest, vehicular traffic on a road network, data collected by sensors in a spatially distributed network, and live streaming video data. Data streams provide opportunities for knowledge discovery but at the same time present significant technical challenges that need to be resolved before any meaningful knowledge can be found.

Mining such data is valuable and requires specialized methods over and above those used in traditional data mining. One major challenge is the development of high speed algorithms that are able to mine incoming data on the fly without having to store data and process it offline.

The online requirement is dictated by enormous data arrival rates associated with modern day streaming data applications, thus making it infeasible to buffer incoming data as storage requirements will quickly outgrow available storage capacity. Furthermore, decision making, based on knowledge discovered from mining the stream needs to be done in an online fashion for timely interventions to take place.

Another challenge that data streams present is the potential for patterns in the underlying data to change over time. This implies that models that are developed need to be updated in online mode to reflect changes in the underlying stochastic data distribution. This in turn requires that a concept drift mechanism is needed that will continuously monitor the stream for changes. When the concept drift detector flags such changes the data stream algorithm needs to update its model in an incremental manner without the need to develop a new model from scratch.

These two challenges render data stream mining as a technically difficult problem and this has given rise to a variety of different approaches proposed in the research literature. In a sense,

the solution to the data stream mining problem can be considered as a generic solution to data mining in general. Classical data mining methods use historical data to train a machine learning algorithm to recognize patterns. Once trained the model generated is used on newly arriving data to make predictions, with the (contentious) assumption that newly arriving data has the same stochastic distribution as historical data on which its model was developed.

Thus, in effect, data stream mining is a generalized version of classical data mining with the added capability of dealing with high speed streams of data that are continuously changing in terms of their conceptual properties.

Russel is involved in a large project led by Professor Kasabov which is funded by Auckland University of Technology. The goal of the project is to further the discipline of information processing, and more specifically that of machine learning and apply the developed methods in areas of significant interest to New Zealand as well as internationally. New Zealand is a significant stakeholder in the internationally funded Square Kilometer Array (SKA) radio astronomy telescope project.

The volume of data streaming in from the SKA telescope is unprecedented and will thus provide an ideal test bed for high speed algorithms that Russel is currently developing. One of the major uses envisaged for this project is the discovery of pulsars, a type of neutron star that emits electromagnetic radiation in bursts over time. Pulsars have the potential to answer some of the fundamental unanswered questions on Physics and Astronomy.



## A Collaborative Approach: Monitoring New Zealand Native Bees using Image Analysis

(Contributed by N. Hart and Associate Professor L. Huang)

Ngairé Hart is a Doctor of Philosophy candidate in The School of Engineering. She has a background in Engineering (BE Hons) and Environmental Science (MSc Hons). Ms Hart is of Ngatiwai and Ngatihine descent, so there are aspects of Mātauranga Māori weaved throughout her research adding another dimension to the interdisciplinary study. Supervised by Mechatronics Engineer Associate Professor Dr Loulin Huang, Ms Hart draws on her skills in both Engineering and Science to develop an image-based monitoring system for New Zealand's native bees. The idea of using image analysis to monitor the native bees was formed in 2008 when Ngairé met Dr Loulin Huang, a robotics expert with experience in the application of computer vision for robotic control. After initial discussions, Ngairé explained some of the difficulties associated with monitoring native bees.

"Ecological monitoring methods are challenging and native bees are too small to track electronically. Even if we could attach a tracking device to native bees they behave differently to other species; they will try to remove the extra weight by dislodging a load or brushing pollen from their legs," explains Ngairé.

While the technology to track honeybees and bumblebees is impressive, Loulin and Ngairé decided to use digital images and image analysis to gather broad information on the health of native bees and their communities. They successfully applied for funding from the then Ministry of Science and Innovation (now MBIE), and Ngairé started her PhD research journey under Loulin's supervision.

Ngairé explains that many people are quite surprised to learn New Zealand has around 26 unique species of native bees. Most are much smaller than honeybees and they are frequently mistaken for flies or wasps. Native bees are not aggressive and rarely sting. Unlike honeybees, native bees do not make honey and do not live in colonies but they are very important pollinators. Because endemic bees have evolved with native ecosystems, they are vitally important to the integrity of natural landscapes. Despite their

importance, little is known about the population and diversity status of New Zealand's native bees. This is partly because traditional ecological methods can be time-consuming and technically challenging. Native bees can be very difficult to identify taxonomically. Because most species have seasonal life-cycles they can only be observed over the summer months so good studies are generally long term. Nevertheless, New Zealand's native bees are keystone pollinators and without them ecosystems could eventually collapse. Ngairé explains that her research is primarily focused on developing a simple and reliable method to monitor their populations over time. Since most species of New Zealand's native bees are ground-nesting solitary bees, Ngairé explains that the active nests can be used as a proxy for populations.

"It is much easier to count the number of active nests rather than trying to estimate populations from individuals in flight. It is even more reliable to construct a computer program to automatically detect and count active nests from digital images. It is nearly impossible to track native bees visually because they are so small and move so fast", says Ngairé.

She points out the imaging-based method is non-invasive, is straightforward to set-up and is designed to consider citizen scientists as primary data collectors. Her supervisor, Dr Huang says that the main goal of the research is to combine standardised image acquisition techniques with image processing and analysis to record the changes in populations of native bees over time. Three geographically isolated communities of native bees were monitored over three years in Whangarei (New Zealand). Once collected, digital image data was collated and pre-processed using an open-source biomedical imaging package called FIJI. A specialised machine-learning based plug-in called Trainable WEKA Segmentation was used to perform pixel-based image segmentation. By annotating just a few objects in representative images, a unique classifier (program) is automatically constructed. Once a classifier is constructed, it can be applied to a collection of related images or retrained to recognise different objects.



▸ Ngairé Hart

Dr Huang explains that there are significant benefits of an imaging-based monitoring system, especially for scientific studies. Once collected, digital images can be re-analysed and processed as new software technologies become available or new methods are tested. This is evident in Ngairé's research. Ngairé adds that the Random Forest is a powerful machine-learning algorithm used in final data analysis, but it has only recently gained popularity.

"There is still much to learn about the underlying mechanisms of the Random Forest algorithm, but there is good evidence to show it surpasses other popular machine-learners, especially when working with real-world natural image data". She explains her research has been both challenging and rewarding and its benefits and contributions have been multifaceted.

Loulin and Ngairé hope the systems engineering design approach used to develop the monitoring system will make valuable contributions to other interdisciplinary research and collaborations. Ms Hart explains that the innovative aspects are a direct result of a holistic, solution-driven focus. The ecological results show that the populations of native bees monitored across three locations and over three years have markedly declined.

"This is the first quantitative measure of populations of native bees in New Zealand. The changes in populations come as a complete surprise. Most populations have decreased over the last three years so the declines warrant a closer investigation," explains Ngairé.



▸ Samples of New Zealand native bee

The monitoring system can be adapted for other ground-nesting bees through New Zealand and worldwide, is easily transferable, economically viable, and technologically straightforward. Ngairé says she hopes it will be used to contribute to a greater understanding of native bees and the ecosystems that depend on them.



▸ Dave Moore

## Supporting Beneficial Change in the Hardest Industries

(Contributed by Dr D. Moore)

All around the world there are a number of industries where we have found it especially hard to improve safety, health and the overall quality of life for the workforce – and as a result also that of their families. This is despite very significant advances in sectors such as aviation and manufacturing.

The hard industries, such as agriculture, fishing, forestry, mining and construction, remain the top priorities for Worksafe here in New Zealand and for the counterparts in many other countries.

Dr Dave Moore and his colleagues in the Centre

for Occupational Health and Safety Research at Auckland University of Technology are starting to make some useful contributions in this area, as part of wider cross-disciplinary teams internationally that are now applying Systems Approaches to these challenging corners of industry.

Says Dave: “In the last 50 years these industries have proved remarkably resilient to the types of interventions that have worked in other sectors. There are a number of reasons for this, and many of them are related to the fragmented nature of the workforce and to a lack of Regulations, and/or, our inability to fully enforce the Regulations we already have”.

The systems approaches that are increasingly adopted tend to have a far more participative flavour. Dave explains further: “We have had to find alternative ways of building understanding and developing pragmatic interventions that are acceptable. Crucially we also have to actually measure what happens – both desirable outcomes and the unwelcome. None of these steps can be easily achieved amongst micro and small businesses using the methods developed for the big organisations”.

The researchers at the Centre here have been involved in all these problem sectors in the last few years, but are now being drawn into higher profile roles. A very exciting project that recently kicked off in New Zealand is an initiative formulated by the agriculture sector to set up just such a cycle.

The aim is to achieve a system whereby continual improvement in wellbeing can be enjoyed year on year, in the same way that the sector steps up performance in production and quality. Dave Moore is providing the research coordination for this five year exercise facilitated by WorkSafe.

“We had a two day national forum in Wellington earlier in 2014. A realisation that took solid form at this event was that we have an inadequate surveillance system for monitoring how well or how badly we are doing. Without this we can’t fix on specific targets with any real confidence, nor can we judge success or failure accurately enough”.

The decision was taken to form a group under the Agriculture Health and Safety Council that would develop an improved surveillance system over a five year period. Funding of \$125,000 a year is being provided by the major stakeholders that include industry bodies, WorkSafe, and ACC. The wider network will be international.

Dave says: “I have spent part of this month in the UK on behalf of the new group discussing with their Health & Safety executive and industry bodies how we can develop sustainably affordable surveillance systems. They have similar problems and are very keen to work with us on forming partnership models that get industry parties taking up more of the responsibility for data gathering”.

Overseas interest is not limited to the English speaking world. Dave is currently President of the Human Factors and Ergonomics Society of New Zealand and has held a number of international posts related to the primary industries. He is using these wider contacts and keynote opportunities to generate interest and build support.

“Our advisors have not been hard to recruit; as we all share the same problems. Any initiative like this gets immediate interest. Apart from the Brits, Sweden, Belgium, and Chile will also be having input and watching closely”.

Capability building is also a key feature of this five year endeavor for NZ. Dave explains: “Too many of us active in these hard sectors are now on the wrong side of 50. Really this happened through our lack of continuous investment; we just haven’t created the environment to entice and reward good young talent.

We have to get that sorted fast. Our new systems in this country have to go beyond developing interventions, to also developing and keeping talent engaged. AUT is a natural place to produce new PhDs in these tough industries, and if we don’t do this systematically somewhere in New Zealand, the problems for people in these hard sectors will just get worse, not better, over the coming decades”.



## Electronic Nose for Gas Sensing Applications

(Contributed by Professor K. Prasad)

Smart sensor arrays in the form of electronic nose, electronic tongue or electronic eye are increasingly used for wide area of applications such as environmental analysis, medical diagnostics, food and wine industries, etc. Amongst all of them, electronic nose based on metal oxides is the most promising candidate for the development of low cost but reliable gas sensors.

A collaborative project carried out by Professor Krishnamachar Prasad from the School of Engineering, Professor Philip Sallis from the School of Computer and Mathematical Sciences (SCMS) and Mr Enobong Bassey, a PhD student at SCMS, has led to the successful development of electronic nose based on metal oxide sensors. They have fabricated a variety of gas sensors based on tin oxide, zinc oxide and their composites and have tested them for gas detection.

A typical sensitivity response plot of the sensors is shown in **Figure 1**. The sensitivity was calculated by monitoring the change in the electrical resistance of the film when a target gas such as ethanol or methanol was introduced in the test chamber.

The gas sensors exhibit excellent correlation with the gas concentration (expressed here in ppm levels). Increasing levels of gas concentration consistently led to higher sensitivities. Higher temperatures led to faster sensor responses. The sensitivity was also seen to increase consistently with sensor temperature, as shown in both **Figure 1** and **Figure 2**.

By a controlled mixing of tin oxide and zinc oxide, it is possible to fabricate sensors that can achieve good selectivity to specific gas species.

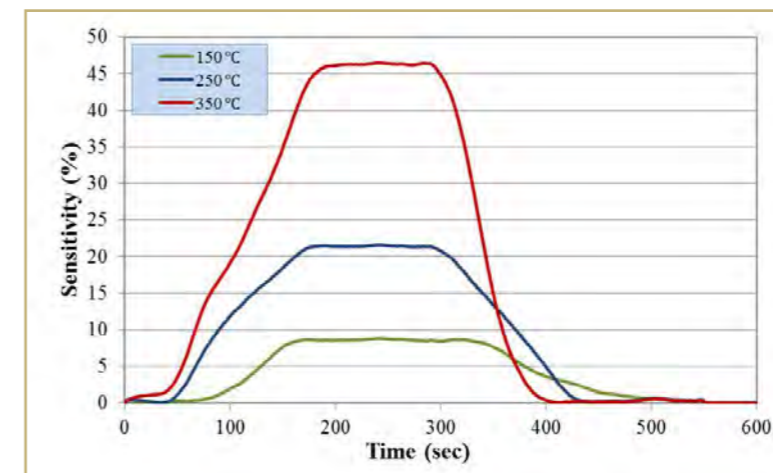
A detailed mathematical analysis of the experimental data was carried out and a power model was developed to simulate the sensor behaviour. The power model exhibits excellent correlation with the experimental results. This is shown in **Figure 3**.

The studies show a great potential of the metal oxide sensors to be used as electronic nose for a wide variety of applications. For example, they can be used to detect toxic gases at waste disposal sites or can be used to monitor carbon monoxide levels in basement car parks and raise an alarm if the levels exceed set thresholds.

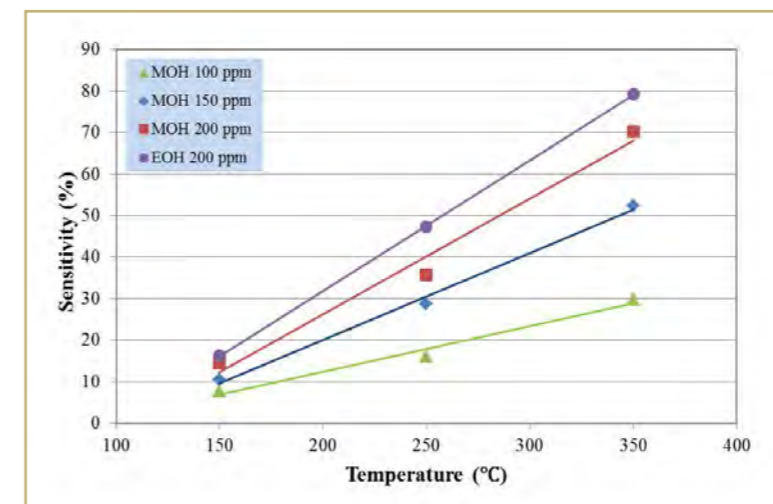
They can be used to sniff wines to determine whether the wine is suitably aged or not. They can also be used to determine the freshness of fish from the supermarket.

The ultimate goal is to integrate electronic nose (for odour), electronic tongue (for taste) and electronic eye (for colour) so that they can scientifically determine the quality of wine. This would be very desirable in the wine industries all over the world.

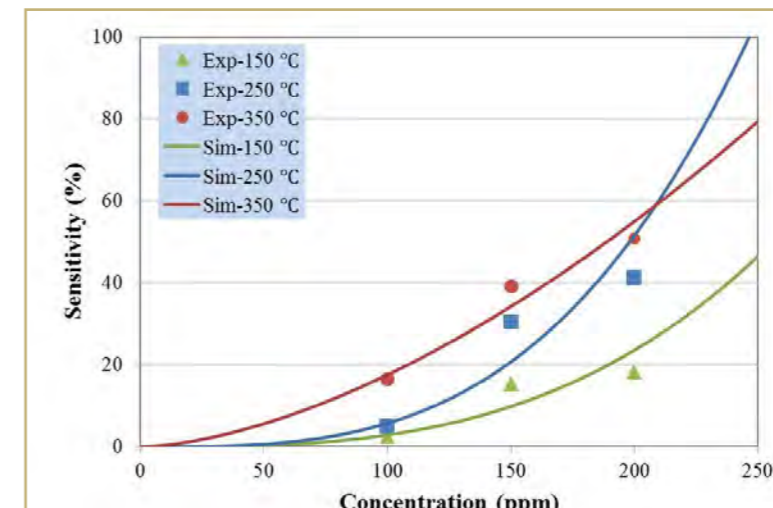
The research was generously supported by the Engineering Research Institute at the School of Engineering.



• Figure 1: Typical sensitivity response plot of tin oxide sensor for 200 ppm methanol.



• Figure 2: Sensitivity vs. sensor temperature plot for zinc oxide sensors



• Figure 3: Comparison of simulation vs. experimental results for 50% tin oxide/50% zinc oxide composite gas sensor.





▶ James Rotimi

## Post Disaster Reconstruction Research

(Contributed by Dr J. Rotimi)

The vulnerability of New Zealand to most forms of natural disasters demands its proactive engagement in management programmes that will not only reduce the impact of disasters but also increase its resilience to future events. Post-disaster reconstruction programmes need to address these objectives.

However, very often institutional policies or legislative and regulatory provisions become impediments to the realisation of these reconstruction objectives.

Current research undertaken at the School of Engineering indicate that existing regulatory provisions may constrain reconstruction efforts, cause multi-agency responsibility and coordination issues for disaster practitioners. In New Zealand, the implications of these inadequacies have been demonstrated to be varied and far reaching.

Dr James Rotimi's research activities are mainly in the field of disaster legislation and post disaster reconstruction. Most specifically, his current and past research has focused on the realignment of legislative and regulatory provisions for disaster management so that they provide appropriate practice framework for the achievement of reconstruction objectives.

Dr James Rotimi is the Programme Leader of the Masters in Construction Management at the AUT School of Engineering. He holds Higher National Diploma and BSc degree certificates in Building; MSc in Construction Management; PG Certificate in Commerce; Graduate Certificate in Higher Education and a PhD in Civil Engineering.

James joined Auckland University of Technology in 2009 and is a recipient of the DCT Dean's Emerging Researcher Award, 2013 and Dean's Award for Contributions to Research Environment in 2012. He had previously held academic positions in the School of Built Environment at UNITEC, New Zealand and in the Department of Building, Ahmadu Bello University, Nigeria.

James is the founder and editor of the online open access *International Journal of Construction Supply Chain Management* which he established in 2011 with the support of AUT's School of Engineering. His research interests are in four major areas: construction projects management, construction supply chain management, disaster legislation and post disaster reconstruction and management.

James' doctoral thesis at the Department of Civil Engineering, University of Canterbury, NZ was on post disaster reconstruction and management and examined the provisions of the Building, Resource Management and Civil Defence Emergency Management Acts (BA, RMA and CDEMA respectively) to determine if they were in tandem with the demands for the reconstruction of physical facilities in a major natural disaster in New Zealand.

The desire is to create the best possible conditions that will encourage rapid rebuilding of lives and communities after large-scale disasters. A 'business as usual' approach could not be expected to be operable during significant reconstruction programmes to forestall a secondary disaster as a result of unfulfilled recovery programmes.

His research was under the ambit of one of the objectives pursued by 'Resilient Organisations' research programme (Reconstruction Following a Disaster) at University of Canterbury. While on his doctoral research, James participated in a number of disaster seminars, exercises and workshops at local, regional and national levels that focused on response and recovery and also participated at international conferences.

James research work has found inadequacies in three legislative documents: BA, RMA and CDEMA, and that these could potentially become impediments to the realisation of reconstruction objectives in NZ.

For instance with the BA there were issues around building consent processing, damage evaluation procedures, approval and certification of Building Consent Authorities, disaster personnel training, insurances, and decision makers' liabilities.



There were issues with the RMA, such as: resource consenting, consultation procedures, strict compliances under the RMA, and conflicting provisions between the RMA and BA. Issues found with the CDEMA included: statutory powers to coordinate recovery and the period for which this could be exercised, recovery arrangements, and the implementation of the CDEMA alongside the BA and RMA. Some of these issues had played themselves out after the Canterbury Earthquakes in 2010/11.

James Rotimi's numerous publications before and after the Canterbury incidents have been based on the premise that proactive policies for reconstruction and recovery could be facilitated by more appropriate legislative and regulatory guidelines.

James submitted a memo to the Select Committee on Local Government and Environment, New Zealand Parliament on the topic of *Resource Management (simplifying and streamlining) Amendment Bill in 2009*. This was to the effect that the RMA could constrain both environmental and other physical re-development programmes in the event of a major disaster. He also submitted in 2010 a commentary to the *Canterbury Earthquake and Recovery Commission on: Canterbury Earthquake: Comments on Canterbury Earthquake Response and Recovery Act 2010 and Subsequent Orders in Council*.

The comments were made in the context of ensuring a smooth recovery and reconstruction process in the Canterbury region after the first Canterbury earthquake in 2010. The report gave some indications that some Orders within the Canterbury Earthquake Response and Recovery Act 2010 would need to be amended if there was a prolonged recovery or in the event of another disaster within the application period of the Order (which was set at 1st of April 2012).

On reflection most of his research conclusions have been validated by the realities of the rebuilding programmes in Canterbury and other world disaster events.

Recently, together with other colleagues, James contributed two chapters to the *Encyclopaedia of Earthquake Engineering*: 'Legislation Changes Following Earthquake Disasters' and 'Reconstruction Following Earthquake Disasters' (to be published by Springer Reference).

Research in post disaster reconstruction and disaster management is very relevant as we witness more and more disasters around the world.

Academia has a lot to offer in terms of providing the knowledge base on reduction, readiness, response and recovery from disasters and also in producing the necessary skillset to reduce our vulnerability to future disasters.

James actively collaborates with staff within and outside the DCT Faculty in this emerging field of research. In 2014, James expects to supervise two new doctoral students at Auckland University of Technology with the topics:

*Modelling disaster operations management in the aftermath of the Christchurch earthquake and An assessment of the impact of humanitarian logistics on disaster relief operation and management in New Zealand.*



• Christchurch after the earthquake



▶ David I Wilson at work

## A Good Reason to Get Up in the Morning

(Contributed by Associate Professor D. I. Wilson)

Next time you go to the supermarket and pick up the milk and cheese for the family spare a thought for those responsible for the quality of the product. It can be a thankless task.

I started my career in industrial control systems, designing the algorithms and hardware that people like Homer Simpson get to use for clients such as *Transpower* in New Zealand, *Petronas* in Malaysia, pulp and paper companies in Sweden, pharmaceutical companies in Switzerland, and currently *Fonterra*.

Part of the challenge is that our algorithms must be robust and reliable enough so that even Homer would have difficulty breaking them. Our industry is sometimes called the “invisible technology” because when we do our job right nobody knows we are even present; when things go awry, Prime Ministers are called on to patch up international relations.

For some years, it has been recognised that while classical feedback control was necessary, what was really required, particularly in the food industry, was real-time quality. Our research team, which is a joint collaboration between Auckland University of Technology and the University of Auckland, now looks at ways to characterise milk powder production to ensure that the final product has exactly the right functional properties that customers such as *Nestle* demand.

Our team working with *Fonterra* engineers investigate particle size distributions, methods of agglomeration and breakage and relate that back to processing conditions in New Zealand dairy factories. We develop sophisticated mathematical algorithms that fuse the myriad

of process sensors on the plant with our incomplete knowledge of the basic science to gain a better understanding of the fundamental mechanisms. One of the more unusual aspects of this project is that we are looking at novel ways to visualise this complex and high-dimensional data and present it to the operators in the control room in a meaningful, intuitive manner. We need this information to ensure we produce the best quality product in an efficient and sustainable manner.

Literally alongside dairy factories are heat and power plants such as *Contact Energy's Te Rapa* plant. Our research team are developing models and optimal operating strategies for *Contact Energy's* Otahuhu combined cycle gas turbine plant and geothermal plants around Taupo. These plants generate electrical energy connected to the nationwide grid operated by *Transpower*. Our team developed the Reserve Management Tool, a software program that ensures that there is always enough electrical power in reserve even if one of our largest power stations tripped over. Alongside multinationals, we also work with one-man bands, such as a company trying to microwave waste human biomatter, or “poo” as it is perhaps more commonly known.

The thing that gets me up in the morning is that I go to work knowing that every day is going to be different, that I can apply a systematic engineering approach to a wide variety of problems and make a difference. The only downside is that when it works perfectly, nobody knows you have even been there.





## Research Outputs

### Master Degrees 2013

Art and Design - Master of Art and Design				
Name	Surname	Date Granted	Thesis Title	Supervisor
Amber	Ruckes	18/12/2013	Anneal: from solid to surface	A. Douglas
Catherine Cherie	Ellis	18/12/2013	Animal and Human: Mythical Metaphor for the Human Condition	C. Braddock
Cathy	Carter	18/12/2013	Immersion and emergence	M. Redmond
Cora-Allan	Wickliffe	18/12/2013	Platforms for translation: Decolonising constructed misrepresentations of Maori identity through explorations of perception.	M. Redmond
Dannielle	Chandler	2/8/2013	Double movement: an exploration of the interaction between live and digital dancer, sharing the physical space	G. Bennett
Darcell	Apelu	18/12/2013	You, Me, Them: The position of the pacific body through the presence of the an other	M. Redmond
Glenn	Yungnickel	18/12/2013	Design-Maker: Exploring an alternative approach to fast fashion.	A. Mikellis
Harriet	Stockman	18/12/2013	Disquiet Experience: Installation and Object	M. Redmond
Holli	McEntegart	18/12/2013	(im)possible futures and (im)probable pasts	L. Jerlach
Janelle Lisa	Wills	18/12/2013	The familiar and unknown	S. McIntyre
Jialin	Li	18/12/2013	Nature + Deep structure II	E. Young
Joe	Prisk	18/12/2013	The Ambiguous Image; an exploration of the materiality between image and surface	I. Jervis
Jyoti	Kalyanji	18/12/2013	Machine crafted: 3-dimensional machine knitted forms	M. Smith
Kate	Ramsay	2/8/2013	Exploring the opportunities for moving from craft to design with the emergence of high technologies in a New Zealand context	A. Withell
Kelsey	Stankovich	18/12/2013	Performing Potentiality - An investigation into enigmatic modes activated between viewer and art-object	C. Braddock
Kevin	Lim	18/12/2013	De-Scaling: Deconstructing the system of scale	C. Douglas
Leigh	Martin	2/8/2013	Subject[ed] matter	A. Thomson
Limi	Manu	18/12/2013	Spaces Between: Visually exploiting the spaces between ethical ideals	I. Jervis
Lyna	Ayr	2/8/2013	Disjecta Membra: a poetic interplay of fragments	W. Ings
Makiko	Chiba	2/8/2013	Beyond Wrapping: Investigation of the design processes of personalising gift-wrapping	KT Ho
Mark	Wu	2/8/2013	Design beyond 'us vs them'	S. Reay
Martin	Butts	2/8/2013	An encounter with lived experience: embodied explorations of walking through film	D. Fitchett
Miriam	Hansen	2/8/2013	Drawing on the domestic space: mapping from a feminine perspective	D. Fitchett

Mohammed Ahmed Mohammed	Al-Riyami	2/8/2013	My own space: A visual exploration of the space between cultures through the application of the Arabic calligraphy, Kufi, to English writing	KT Ho
Nancy	Wang	2/8/2013	Living with less - The documentation of a personal journey	S. Reay
Reid	Douglas	2/8/2013	Minimal running footwear	S. Reay
Rohan	Mills	18/12/2013	Re-using Form Repetition with Difference	S. McIntyre
Samantha	Matthews	18/12/2013	Concerning tension: investigating the nature of the photograph	KT Ho
Tanya Maree	Ruka	2/8/2013	Whenua: Maori ki tona ake ao (land: Developing a Maori World View)	A. Thomson
Tinaz	Karbhari	18/12/2013	Pure Potentialities: Exploring the transcendent or spiritual moment within immanent experience	F. Amundsen
Trudy	Charman Love	2/8/2013	Pigment of the Imagination: The essay film as a navigation of liminity	W. Ings

### Art and Design - Master of Philosophy

Name	Surname	Date Granted	Thesis Title	Supervisor
Dane	Mitchell	2/8/2013	Spectra to spectre: an art exploration on the margins of revealing and concealing	I. Jervis
Lisa	Waldner	2/8/2013	I want to be a forensic scientist playboy bunny: A critical and creative examination of mass media's influence on the contemporary feminine ideal	W. Ings
Miranda	Smitheram	18/12/2013	The Impact of Globalisation on the Material Culture of Everyday Clothing	F. Joseph

### Communication Studies - Master of Communication Studies

Name	Surname	Date Granted	Thesis Title	Supervisor
Abigail Fonseca	Kalinowski	2/8/2013	Come live the good life: a rhetorical examination of the persuasive techniques on the New Zealand Immigration Service website	J. Harrison
Anjali	Saroop	2/8/2013	Employing social media platforms to address binge drinking amongst youth	G. Frommherz
Hajar Hamdan Khalfan	Alsa'idi	2/8/2013	Unemployment among Digital Media Graduates from the Colleges of Applied Sciences in the Sultanate of Oman	G. Frommherz
Harriet Mary	Parr	18/12/2013	Food Waste New Zealand: A Case Study Investigating the Food Waste Phenomenon	G. Frommherz
Henry	Yamo	18/12/2013	Mobile phones in rural Papua New Guinea: A transformation in health communication and delivery services in Western Highlands Province	D. Robie
Houda Abdallah Ali	Al Balushi	2/8/2013	Kony 2012 Campaign: An analysis of Public Opinion as Presented on Cable News Networks' Pages on Facebook	P.Theunissen
Justin	Matthews	2/8/2013	The Tablet Magazine: A Future Vision for Magazine Devolution	G. Frommherz
Sacha	Willets	18/12/2013	A Girl's Best Friend? Socio-cultural definitions of beauty in teenage magazines	G. Peters
Shivani	Karan	18/12/2013	Breaking Barriers: Online Collaboration for Non-profit Campaigning	G. Frommherz
Tui	Matelau	2/8/2013	Female Maori identity: A multimodal interaction analysis	S. Norris

### Communication Studies - Master of Philosophy

Name	Surname	Date Granted	Thesis Title	Supervisor
Jim	Marbrook	18/12/2013	Head Case - a feature film script and exegesis	J. Harrison
Paul	White	2/8/2013	Getting attention, keeping attention and measuring attention in the age of information overload: billboard and poster advertising in the 21st century.	S. Norris
Stephanie	Mearns	18/12/2013	A Critical Analysis of the Constuction of Gender in Commercial Radio	J. Harrison

### Computer and Mathematical Sciences - Master of Computer and Information Sciences

Name	Surname	Date Granted	Thesis Title	Supervisor
Amrita	Shinde	18/12/2013	Examining the expectations of user involvement in software development	J. Buchan
Mohammed Owaidh	Alsuwat	2/8/2013	Comparisons of the online buying behaviour in Saudi Arabia and New Zealand: A comparative Case study	B. Cusack
Saide	Lo	18/12/2013	Project governance in ERP post - implementation phase in the organisation: A case study	B. Cusack
Simon	Xiang	2/8/2013	Trust-based Geographical Routing For Green SmartGrid	W. Liu
Vivienne	Breen	2/8/2013	Contemporary Computational Methods and Systems for personalised modelling applied in Bioinformatics	N. Kasabov
Yi	Chen	18/12/2013	Malicious software detection by API sequence and ASCII code analysis	A. Narayanan
Zachary	Zhou	2/8/2013	RFID Usage for Monitoring Drug Dispensing in Hospitals	D. Parry

### Computer and Mathematical Sciences - Master of Forensic Information Technology

Name	Surname	Date Granted	Thesis Title	Supervisor
Aimie	Chee	18/12/2013	Steganographic Techniques for Social Media: Investigation Guidelines	B. Cusack
Alain	Homewood	2/8/2013	Anti-Forensic Implications of software bugs in computer forensic tools	B. Cusack
Muteb Mohammed Y	Alqahtani	18/12/2013	Assessing network intrusion detection system performance: forensic implications	B. Cusack
Rahul C	R P Lekshmi	18/12/2013	Anti-Forensics analysis for Network Security	W. Yan
Toma	Vasa	18/12/2013	Identifying Mobile Devices Configuration Signature: Absent entry from XRY Database	B. Cusack

### Computer and Mathematical Sciences - Master of Philosophy

Name	Surname	Date Granted	Thesis Title	Supervisor
Bing	Luo	2/8/2013	Energy Aware Survivable Routing Approaches for Next Generation Networks (NGNs) Design	W. Liu

### Computer and Mathematical Sciences - Master of Science

Name	Surname	Date Granted	Thesis Title	Supervisor
Boris Benjamin	Feron	18/12/2013	SKA Real-Time Data Processing for Radio Astronomy	S. Gulyaev

### Engineering - Master of Philosophy

Name	Surname	Date Granted	Thesis Title	Supervisor
Mark	Hildesley	2/8/2013	Nafion Simultaneous Humidification and Actuation Feasibility	M. Ramos



## Research Outputs

### PhD Completions 2013

Art and Design				
Name	Surname	Date Granted	Thesis Title	Supervisor
Brent	Harris	18/12/2013	Figuring Diachrony-Ethics before the voice	M. Jackson
Gabriella	Trussardi	18/12/2013	Patterns of corporeality: Text/ile evidence of the body	W. Ings
Mandy	Smith	18/12/2013	Seamless Knitwear: Singularities in Design	M. Jackson
Moana	Nepia	2/8/2013	Te Kore - Exploring the Maori concept of Void	W. Ings
Gustavo	Restivo	18/12/2013	Jouisannce & the Sexual Reality of the (Two) Unconscious	M. Jackson
Communication Studies				
Name	Surname	Date Granted	Thesis Title	Supervisor
Angelique	Nairn	18/12/2013	Church and Constructions of the Ideal Self: Exploring identity & Identification in Church Communications	F. Nelson
Jarret George	Geenen	18/12/2013	Kitesurfing: Action, (Inter)action and Mediation	S. Norris
Mike	Crudge	18/12/2013	The disconnected church: A critical examination of the communication of the Christian church in New Zealand	F. Nelson
Sarah Jane	Baker	2/8/2013	The changing face of current affairs television programmes in New Zealand 1984-2004.	A. Cocker
Computer and Mathematical Sciences				
Name	Surname	Date Granted	Thesis Title	Supervisor
Anuj	Bhowmik	2/8/2013	Blocking Efficiency and Competitive Equilibria in Economies with Asymmetric Information	J. Cao
Boris	Bacic	2/8/2013	Connectionist methods for data analysis and modelling of human motion in sporting activities	S. Macdonell
Isaac Kwadwo	Nti	18/12/2013	Geospatial Process Modelling for Land Use Cover Change	P. Sallis
Jacqui	Finlay	2/8/2013	Multi-metric Predication of Software Build Outcomes	A. Connor
John David Nicholas	Graves	18/12/2013	Open Source Software Development as a Complex System	T. Clear
Kshitij	Dhoble	18/12/2013	Spatio-/ Spectro-Temporal Pattern Recognition Using Evolving Probabilistic Spiking Neural Networks	N. Kasabov
Linda	Liang	18/12/2013	Personalised Modelling for Medical Decision Support and the Case Study of Stroke Data	N. Kasabov
Muhammad	Usman	18/12/2013	Exploiting Data Mining Techniques in the Design of Data Warehouse for Enhanced Knowledge Discovery	R. Pears

Nuttapod	Nuntalid	2/8/2013	Evolving Probabilistic Spiking Neural Networks for Modelling and Pattern Recognition of Spatio-temporal Data on the Case Study of Electroencephalography (EEG) Brain Data	N. Kasabov
Raymond	Huang	2/8/2013	Critical Success Factors in Multichannel Mobile Marketing: A Delphi Study	S. Macdonell
Sherlock Anthony	Licorish	18/12/2013	Collaboration Patterns of Successful Globally Distributed Agile Software Teams: the Role of Core Developers	A. Connor

## Engineering

Name	Surname	Date Granted	Thesis Title	Supervisor
Alireza	Gheitasi	2/8/2013	Motor Fault Recognition Using Distributed Current Signature Analysis	A. Al-Anbuky
Chamila	Ramanayaka	18/12/2013	Developing a Strategy-led Approach as a Suitable Planning Methodology for Construction Project Planning and Implementation	J. Rotimi
David	White	18/12/2013	Nasal Drying During Pressurised Breathing	D. I. Wilson
Funmi	Rotimi	18/12/2013	An Evaluative Framework for Defects in New Residential Buildings: The New Zealand Case	J. Tookey
Hakilo	Sabit	2/8/2013	Distributed Incremental Data Stream Mining for Wireless Sensor Networks	A. Al-Anbuky
Izani	Mohamed Rawi	18/12/2013	Sensor Network Embedded Intelligence: Human Comfort Ambient Intelligence	A. Al-Anbuky
Kathir	Kathirgam-anathan	2/8/2013	Parameter optimization of the process of Aluminium Extrusion	T. Neitzert
Lu Lu	Wang	18/12/2013	Holographic Microwave Imaging for Lesion Detection	A. Al-Jumaily
Mohammad	Al-Rawi	2/8/2013	Computational Fluid Dynamic Modeling for Arterial Diseases Assessment	A. Al-Jumaily
Mohammad	Al-Rawi	2/8/2013	Computational Fluid Dynamic modelling of the arterial wall with fluid interaction	A. Al-Jumaily
Naresh	Yamani	18/12/2013	Object-Centric Intelligence: Sensor Network and Thermal Mapping	A. Al-Anbuky
Sivadass	Thiruchel-vam	2/8/2013	A Novel Development of a Strategic Sourcing Supplier Selection for Capital Equipment (S4 - CapEq) Decision-Making Framework: A Case Study of a Government-Linked Company in Malaysia	J. Tookey
Sivaram-akrishnan	Sivakumar	2/8/2013	Energy Efficient Opportunistic Connectivity for Wireless Sensor Network	A. Al-Anbuky
Thanuja	Ramachandra	2/8/2013	Exploring Feasible Solutions to Payment Problems in the Construction Industry in New Zealand	J. Rotimi
Yury	Chikarov	18/12/2013	A New Approach to Monitor the Integrity of Grounding Grids	T. T. Lie

## A - Research Outputs

### Art and Design

#### Amundsen, Fiona Jane

Publication type	Citation
Exhibition	Amundsen, F. J. (2013). As Many Structures As I Can [Photography. Items:three 1000x800 Photographs]. E. Bugden (Curator). Wellington: The Dowse Art Museum, 12 October-26 January.
Exhibition	Amundsen, F. J. (2013). Operation Magic [Photography. Items:sixteen 1000x800 photographs, one 217x282 typed letter]. Wellington: City Gallery, 24 September-24 November.
Exhibition	Amundsen, F. J. (2013). Available light: imagining more than we see [Photography. Items: 1 x 16x20" Silver Gelatin Photograph]. P. McNamara (Curator). Whanganui: McNamara Gallery, 7 June-30 August.
Exhibition	Amundsen, F. J. (2013). Recent Auckland Photography [Photography. Items: 3 x 1000x800mm Inkjet Photographs]. E. Hanfling & C. Corson-Scott (Curators). Auckland: North Art, 20 May-12 June.
Other form of output	Amundsen, F. J., & Corballis, T. (2013). 'Matter Speaks, Voiceless Matter' for Weak Force Four exhibition at St Paul St Gallery. Auckland: St Paul St Gallery.

#### Austin, Logan

Publication type	Citation
Conference contribution - Poster	Kaiser, L., Cochrane, T., Spooner, H., Karmokar, S., Austin, L., Garden, E., ... Wilczynska, K. (2013, July). Graphic Design and 21st Century Bookworks: Implementing multimodal strategies to include e-pub and interactive pdf formats to complement traditional book formats. Poster presented at the HERDSA. Auckland University of Technology Auckland, New Zealand.

#### Bennett, Gregory

Publication type	Citation
Exhibition	Bennett, G. (2013). 'Unearthing Delights' the 5th edition of Narracje - Installations and Interventions in Public Space, public art exhibition and festival, Gdansk, Poland. [HD video projection. Items:1 x HD video projection (10 minutes, looped)]. R. Garrett (Curator). Gdansk, Poland: Seredyńskiego Str., backyard, entrance through Seredyńskiego 4 Str. gate, 15 November-17 November.
Exhibition	Bennett, G. (2013). 'Terrifying Noble Splendid', group exhibition at TEMP Art Space, New York, USA [HD video. Items:1 x HD video projection (11:53 minute, looped)]. A. Lipkis & C. Romero (Curators). New York, USA: TEMP Art Space, New York, USA, 5 October-2 November.
Exhibition	Bennett, G. W. (2013). 'Dromospheres', solo exhibition at Two Rooms Gallery, Auckland, New Zealand. [High Definition Video, Digital Print. Items:1 x single-screen HD video projection (14:15 minutes looped); 2 x single-screen HD videos (8:50 minutes looped and 7:48 minutes looped); 6 x digital prints (60.9 x 46cm each)]. J. Todd (Curator). Auckland, New Zealand: Two Rooms Gallery, Auckland, New Zealand, 4 October-2 November.

#### Braddock, Christopher Gregory

Publication type	Citation
Authored Book	Braddock, C. (2013). Performing Contagious Bodies: Ritual Participation in Contemporary Art. London: Palgrave Macmillan.



Conference contribution - Abstract	Braddock, C. G. (2013). Mystical Participation [Abstract]. In OCEANIC PERFORMANCE BIENNIAL. Viaduct Events Centre, Auckland.
Conference contribution - Abstract	Braddock, C. G. (2013). Layne Waerea—Public Conjuror [Abstract]. In Art Association of Australia and New Zealand (AAANZ). University of Melbourne.
Exhibition	Braddock, C. G., Thomson, A., Cullen, P., & Sansom, M. (2013). The Weak Force [sound art work. Items:1]. A. Thomson & P. Cullen (Curators). University of Surrey, Guildford: Lewis Elton Gallery, 12 March-28 March.
Exhibition	Braddock, C. G. (2013). 'Take Series', 2007-2013 and 'Above', 2007, in international curated group exhibition, Material Traces: Time and the Gesture in Contemporary Art [epoxy clay sculptures and video. Items:nine sculptures and one video projection with sound]. A. Jones (Curator). Montréal, Québec: Galerie Leonard & Bina Ellen, Concordia University, 16 February-13 April.

### Brown, Shirin

Publication type	Citation
Performance	Brown, S. (2013, July). Alice at the Local Board [Play - comedy]. Waiheke: Artworks Theatre, Palm Beach Hall, Rocky Bay Hall.

### Clark, Simon John

Publication type	Citation
Exhibition	Clark, S. J. (2013). Small Works [Oil on Board. Items:Framed: 610 x 610 x 45 mm Nine paintings]. S. Higginson (Curator). Milford Galleries Dunedin: Milford Galleries, 8 June-3 July.

### Cullen, Paul

Publication type	Citation
Artwork or artefact	Cullen, P., Thomson, A., & Sansom, M. (2013). The Weak Force [Buckets, "dwarf" resonating speakers, gallery space, electronic sound files; One installation work occupying entire gallery: approximately]. Surrey University, Guilford, UK: Lewis Elton Gallery.
Exhibition	Thomson, A., Barber, B., Cullen, P., Kosloff, L., Morgan, K., Hansen, E., ... Sansom, M. (2013). Weakforce 3 [mixed media installation]. L. Ihnbum (Curator). Sanmyung University: Space Zero Gallery, 22 May-31 May.
Exhibition	Thomson, A., Sansom, M., Cullen, P., Barber, B., Morgan, K., Kosloff, L., ... Hansen, E. (2013). Weakforce 2 [mixed media/installation]. J. Baker & M. Sansom (Curators). Surrey University, Guilford, UK: Lewis Elton Gallery, 25 February-8 March.

### De Freitas, Nancy Alison

Publication type	Citation
Conference contribution - Oral Presentation	de Freitas, N. A. (2013, June). Im materiality of Location: artistic significance beyond the politics of space. Presented at the Eleventh International Conference on New Directions in the Humanities. Budapest, Hungary.
Conference contribution - Paper in published proceedings	de Freitas, N. A., & Lowry, S. (2013). The Frontiers of Artistic Research: The challenge of critique, peer review and validation at the outermost limits of location-specificity. In C. Brisbin, & M. Thiessen (Eds.), Critique 2013, Conference Proceedings., (pp.197-211). University of South Australia, Australia.
Conference contribution - Paper in published proceedings	de Freitas, N. A. (2013). In the fray, In process, Interconnected, In the future. In C. Barstow, & D. de Bruin, (Eds.), Region and Isolation: The changing function of art & design education within diasporic cultures and borderless communities. Australian Council of University Art and Design Schools (ACUADS).
Oral Presentation	de Freitas, N. A. (2013, July). Writing and Materiality: Approaches to writing in creative, practice-based disciplines. [Invited lecture and one-day workshop at University College Falmouth, Tremough Campus]. Presented at the University College Falmouth, Tremough Campus, UK.

Oral Presentation	de Freitas, N. A. (2013, May). reMAKING research. [Invited lecture on current developments relating to exegetical writing and critical reflection in artistic research practices. Master of Artistic Research programme, Royal College of Art, (KABK) De Koninklijke Academie van Beeldende Kunsten]. Presented at the Royal College of Art (KABK), Den Haag, the Netherlands.
Oral Presentation	de Freitas, N. A. (2013, November). SHAMELESS & SUBLIME: against sanitised method. [Lecture presentation for the Master of Artistic Research programme, De Koninklijke Academie van Beeldende Kunsten (KABK) Royal College of Art]. Presented at the Master of Artistic Research, Royal College of Art, De Koninklijke Academie van Beeldende Kunsten (KABK), Den Haag, the Netherlands.
Oral Presentation	de Freitas, N. A. (2013, December). re-MAKING research: the post practice-led debate. [Invited lecture on re-conceptualising the field of art and design research. Presented at the Swedish School of Textiles, University of Borås]. Presented at the Swedish School of Textiles, University of Borås, Sweden.
Oral Presentation	de Freitas, N. A. (2013, December). Title Asserting Material Thinking: the language we speak. [Invited Lecture and workshop at the Swedish School of Textiles, University of Borås]. Presented at the Swedish School of Textiles, University of Borås, Sweden.

### Douglas, Carl Weston

Publication type	Citation
Chapter or section in books	Douglas, C. (2013). Off the grid. Left out and over. In L. Lambert (Ed.), The Funambulist Papers. Volume 01. (pp.133-137). Brooklyn, NY: punctum books.
Conference contribution - Abstract	Douglas, C. (2013). Inorganic Collections [Abstract]. In A. Douglas, T. Engels-Schwarzpaul, & R. Jenner (Eds.), Moved: On Atmospheres and Affects. 2013 Interstices Under Construction Symposium, (pp.20-20). Auckland, New Zealand.

### Engels-Schwarzpaul, Tina (Anna-Christina)

Publication type	Citation
Chapter or section in books	Engels-Schwarzpaul, A.-Chr., (2013). Indigenising research at AUT School of Art and Design: A report on experience. In C. Jenkin (Ed.), Ngā reo mō te tika: Voices for Equity (pp.48-71). Auckland: EPHEA.
Chapter or section in books	Jahnke, R. H. G., & Engels-Schwarzpaul, A. -C. (2013). A creative journey: By Māori for Māori. Interview with Robert Jahnke. In A. -C. Engels-Schwarzpaul, & M. A. Peters (Eds.), Of other thoughts: Non-traditional ways to the doctorate. A guidebook for candidates and supervisors (12 pages). Rotterdam, Netherlands: Sense Publishers.
Chapter or section in books	Engels-Schwarzpaul, A. -C., & Peters, M. A. (2013). Emergent knowledges and non traditional candidates. In A. -C. Engels-Schwarzpaul, & M. A. Peters (Eds.), Of other thoughts: Non-traditional ways to the doctorate. A guidebook for candidates and supervisors (11 pages). Rotterdam, Netherlands: Sense Publishers.
Chapter or section in books	Engels-Schwarzpaul, A. -C. (2013). Emerging knowledge - translation of thought. In A. -C. Engels-Schwarzpaul, & M. A. Peters (Eds.), Of other thoughts: Non-traditional ways to the doctorate. A guidebook for candidates and supervisors (16 pages). Rotterdam, Netherlands: Sense Publishers.
Chapter or section in books	Engels-Schwarzpaul, A. -C. (2013). Non-traditional ways to the doctorate. In A. -C. Engels-Schwarzpaul, & M. A. Peters (Eds.), Of other thoughts: Non-traditional ways to the doctorate. A guidebook for candidates and supervisors (13 pages). Rotterdam, Netherlands: Sense Publishers.
Conference contribution - Oral Presentation	Engels-Schwarzpaul, A. -C. (2013, November). Travelling Houses (1): From Sacred to Spectacular. Presented at the Pacific Spaces and Sacred Buildings fono.
Conference contribution - Oral Presentation	Engels-Schwarzpaul, A. -C. (2013). The ignorant supervisor: About common worlds, epistemological modesty and distributed knowledge. Presented at the Effective Supervision of Creative Arts Research Degrees.

Evans-Mikellis, Sharon	
Publication type	Citation
Artwork or artefact	Nakagawa, K., O'Brien, J., Wayers, A., McLeod, R., McEwan, L., & Evans-Mikellis, S. (2013). A Play "Catwalk" [seashells, railway sleepers, scaffolding, pallets, fabric and collaborators; Various dimensions]. Waiheke Island: Headland, Sculpture on the Gulf.
Conference contribution - Abstract	Evans-Mikellis, S., Wayers, A., Levey, A., & McEwan, L. (2013). Ethics and Process of (Co) Authorship - A Play: Catwalk, Black Theme. [Abstract]. In Third International Visual Methods Conference: Connecting Diverse Worlds. Wellington, New Zealand.
Conference contribution - Other	Wayers, A., McEwan, L., Evans-Mikellis, S., & Levey, A. (2013, September). A Play, CATWALK: Connecting diverse worlds through visual methods in participatory art. Paper presented at the 3rd International Visual Methods Conference. Visual Methods in Mediated Environments: Connecting Diverse Worlds. Wellington, New Zealand.
Conference contribution - Other	Evans-Mikellis, S., McEwan, L., Wayers, A., & Levey, A. (2013, September). Visual Methods in Mediated Environments. Paper presented at the Third International Visual Methods Conference: Connecting Diverse Worlds. Wellington, New Zealand.
Oral Presentation	Evans-Mikellis, S. (2013, August). Effortless Cool; Fashion and Mid-Century Modernism. Presented at the Auckland City Art Gallery, Kitchener Street, Auckland, New Zealand.
Oral Presentation	Evans-Mikellis, S. (2013, March). Looks like Rock 'n' Roll. Presented at the Auckland City Art Gallery, Kitchener Street, Auckland, New Zealand.
Oral Presentation	Evans-Mikellis, S., Nakagawa, K., McEwan, L., Wayers, A., Levey, A., & Thompson, N. (2013, February). Sculpture on the Gulf Panel Discussion. Presented at the The Pavilion, Matiatia, Waiheke Island, Auckland.

Fraser, Angela Robyn	
Publication type	Citation
Design output	Fraser, A. R., Joseph, F., Smitheram, M., & Chan Villi, Y. (2013). Domestic Camouflage.
Other form of output	Fraser, A. R. (2013). Adobe Illustrator for Textile Design [Digital file]. 58 pages pages.

Gaziulusoy, Ayse Idil	
Publication type	Citation
Journal article	Gaziulusoy, A. I., & Boyle, C. (2013). Proposing a heuristic reflective tool for reviewing literature in transdisciplinary research for sustainability. <i>Journal of Cleaner Production</i> , 48, 139-147.
Journal article	Gaziulusoy, A. I., Boyle, C., & McDowall, R. (2013). System innovation for sustainability: A systemic double-flow scenario method for companies. <i>Journal of Cleaner Production</i> , 45, 104-116.

Gilderdale, Peter Damian	
Publication type	Citation
Conference contribution - Oral Presentation	Gilderdale, P. D. (2013, November). Hands across the sea: Postcards that tamed the migratory divide. Presented at the New Historical Perspectives on New Zealand and the Sea. Dunedin.

Hardy Bernal, Kathryn Adele	
Publication type	Citation
Conference contribution - Abstract	Hardy Bernal, K. A. (2013). What is Gothic about Lolita? [Abstract]. In Gothic Antipodes: An Interdisciplinary Conference, The Inaugural International Conference of GANZA (Gothic Association of New Zealand and Australia). Auckland, New Zealand.

Ho, King Tong	
Publication type	Citation
Chapter or section in books	Ho, K. T. (2013). Transfer and Translation: Negotiating Conflicting Worldviews. Of Other Thoughts: Non-traditional Ways to the Doctorate. Rotterdam/Boston/Taipei: Sense Publishers.

Exhibition	Ho, K. T., Sinfield, D., Piper, G., & Austin, L. (2013). The four quarters [Photographic Prints. Items:600x1300mm/8]. 39 Symonds Street, Auckland: Gallery 3, St Paul Street Gallery, 5 August-9 August.
Exhibition	Ho, K. T. (2013). Taniwha and Dragon Festival: SS Ventnor Trip [Photographic Print. Items:600x4800mm/1]. Kitemoana Street, Orakei, Auckland: Orakei Marae, 27 April-27 April.

Inder, Shane	
Publication type	Citation
Conference contribution - Paper in published proceedings	Inder, S., & Withell, A. (2013). A Case Study of Authentic Learning Underpinned by Design Thinking and Industry Collaboration. In T. Jachna, Y. Lam, & S. Tzvetanova Yung (Eds.), <i>Delimitation - Creating Within Constraints</i> . DesignEd Asia Secriteriat.
Journal article	Blackie, H. M., MacKay, J. W. B., Allen, W. J., Smith, D. H. V., Barrett, B., Whyte, B. I., ... Eason, C. T. (2013). Innovative developments for long-term mammalian pest control. <i>Pest Management Science</i> .

Ings, Welby	
Publication type	Citation
Chapter or section in books	Ings, W. (2013). Queer as a two-bob watch: The implications of cultural framing and self-declaration. In A. C. Engels-Schwarzpaul (Ed.), <i>Of other thoughts: Non-traditional ways to the doctorate. A guidebook for candidates and supervisors</i> (pp.131-145). Rotterdam; Holland: Sense Publishers.
Chapter or section in books	Ings, W. (2013). Dreaming the real: The ideational potential of image-led thought. In E. Ringo (Ed.), <i>International Scientific Journal: Film and Media Studies</i> (pp.1-11). Vienna: International Scientific Journal.
Conference contribution - Oral Presentation	Ings, W. (2013, October). Short on time, Large on Image: The influence of music video and illustration on the films of Welby Ings. [Keynote]. Presented at the Kiss My Arts Lecture series: Four Creative Conversations- [University of Waikato]. Tauranga: New Zealand.
Conference contribution - Oral Presentation	Ings, W. (2013, September). Beyond Words: Relationships Between Visual Ideational Methods and Narrative Form. Presented at the Third International Visual Methods Conference: Connecting Diverse Worlds. Wellington: New Zealand.
Conference contribution - Oral Presentation	Ings, W. (2013, May). Image-led storytelling in short film. Presented at the 2nd Annual HEA Arts and Humanities Conference. Brighton, England..
Conference contribution - Oral Presentation	Ings, W. (2013, May). The challenges of supervising story design theses. Presented at the 2nd Annual HEA Arts and Humanities Conference. Brighton, England..
Conference contribution - Oral Presentation	Ings, W. (2013, May). The imaging mind: Story development in the realm of pictures. Presented at the 4th Global Conference on Storytelling: Global Reflections on Narrative. Prague, Czech Republic.
Conference contribution - Oral Presentation	Ings, W. (2013, June). Enstasic Dreams: The creative nature of image led thought [Keynote]. Presented at the World Film 2013 International Conference on Film and Media: Between Dreams and Reality. Vienna, Austria.
Conference contribution - Oral Presentation	Ings, W. (2013, June). The rage of silence: Type and the cultural marginalisation of gay men. Presented at the International Symposium on Typographic Landscaping. Göteborg, Sweden.
Conference contribution - Oral Presentation	Ings, W. (2013, February). Architectures of Knowing: New approaches to exegesis design in creative practice-led PhDs. Presented at the ESCARD [Effective Supervision of Creative Arts Research Degrees Conference] Brisbane. Brisbane, Australia.
Conference contribution - Paper in published proceedings	Ings, W. (2013). Family Matters: Mindfulness and the implications of cultural framing in declarative Queer design theses. In A. Begg (Ed.), <i>Wisdom traditions and universties</i> , 5, (pp.79-94). School of Education, AUT University.
Conference contribution - Paper in published proceedings	Ings, W. (2013). Enstasy: Immersive Drawing as a Design Process. In E. Brandt, P. Ehn, T. Degn Johansson, M. Hellestrom-Reimer, T. Markussen, & A. Vallgård (Eds.), <i>Experiments in design research</i> , (pp.119-126). The Royal Danish Academy of Fine Arts, Schools Architecture, Design and Conservation.



Conference contribution - Paper in published proceedings	Ings, W. (2013). Family Matters: Mindfulness and the implications of cultural framing in declarative queer theses. In Mindfulness M-sig Occasional Papers #5, (pp.79-94). AUT University.
Conference contribution - Poster	Ings, W. (2013, May). Story design: The role of the positioning poster in postgraduate Graphic design research. Poster presented at the 2nd Annual HEA Arts and Humanities Conference. Brighton, England.
Exhibition	Ings, W. (2013). Drawing as a Visual method for narrative Ideation in the Short Film Muted: Installation [Projection. Items:57 images and interspersed text on a screened loop]. S. Kindon (Curator). Victoria University of Wellington, New Zealand: [080] Exhibition space: RHM2] Rutherford House., 2 September-6 September.
Exhibition	Ings, W. (2013). Enstacy [Drawings and watercolour botanical studies and soundscapes, reconstituted as film. Items:Two film loops [fifty drawings]]. L. Jönsson & M. Makela (Curators). Philip de Langes Allē 10, DK-1435 Kōbenhavn: The Royal Danish Academy of Fine Arts, 9 June-13 June.
Journal article	Ings, W. (2013). Uncommon territory: declaration, and the supervision of queer design theses. Teaching in Higher Education. 1-14. doi:10.1080/13562517.2013.836101
Journal article	Ings, W. (2013). Narcissus and the Muse: Supervisory implications of autobiographical, practice-led, design theses. International Journal of Qualitative Inquiry. doi:10.1177/1468794113488128
Journal article	Ings, W. J. (2013). Uncommon territory: declaration, and the supervision of queer design theses. Teaching in Higher Education.
Oral Presentation	Ings, W. (2013, August). Disobedient Thought. Presented at the Aotea Centre, Auckland New Zealand.

### Jamieson, Nigel

Publication type	Citation
Conference contribution - Other	Jamieson, N., Polli, A., & DeGoede, R. (2013). Strings, Sounds and Satellites: Site-specific Sculpture, Sonics and Mobile Geo-Reality. Paper presented at the International Symposium on Electronic Art - ISEA2013. Sydney, Australia.
Conference contribution - Other	Jamieson, N., DeGoede, R., & Polli, A. (2013). Wind over Water; Making visible the Invisible. Paper presented at the 2013 Balance-Unbalance International Conference. Noosa, Queensland, Australia.
Exhibition	Jamieson, N., & Polli, A. (2013). Wind over Water: Making Visible the Invisible [Multi-media. Items:Dimensions variable, 1 piece]. M. Chavez (Curator). Hong Kong, China: Hong Kong Exhibition and Convention Centre, Expo Drive, Hong Kong, 20 November-22 November.

### Jansen, Dieneke

Publication type	Citation
Artwork or artefact	Jansen, D. (2013). As Promenade Occurred 01-03 [digital inkjet print; one framed work - h700mm x w1100mm]. Hamilton: Creative Waikato.
Conference contribution - Oral Presentation	Jansen, D. (2013, June). Creating Intensive and Immersive Learning Experiences: The Impact of an Off Campus Intensive Residential Camp. Presented at the The Eight International conference on the Arts in Society. Budapest, Hungary.
Exhibition	Jansen, D. (2013). Morrison drive, Hobsonville 23 November 2012 [digital inkjet print. Items:1 piece, 4.25 x 1meter]. J. Bywater (Curator). Hamilton: Waikato Museum Te Whare Taonga O Waikato, 17 August-10 November.
Exhibition	Jansen, D., & Livesey, B. (2013). There are remnants of small fires on the ping-pong table in the park [photography, HD video, text wall work. Items:18]. D. Jansen & B. Livesey (Curators). 295 Karangahape rd, Auckland: RM, 18 July-3 August.
Exhibition	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). Transforming Topographies [Installation, Object, Performance, Event, Painting, Spatial Design, Drawing, Model making, Participatory practice. Items:34]. H. Hanru (Curator). Auckland Art Gallery, Auckland, New Zealand: The Lab, 1 July-22 July.

Other form of output	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). The Lab Project Design [Installation/Event-based project; visual arts and spatial design; 68 projects developed into a final group of 34 projects]. Auckland, New Zealand: The Lab, Auckland Art Gallery.
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### Jansen, Monique Helene

Publication type	Citation
Exhibition	Jansen, M. H. (2013). Wall Tattoo, Drawing Wall Project Space, Te Tuhi-The Mark, Auckland [Drawing. Items:'Wall Tattoo' A site-specific, wall drawing. Incised lines and paint. 2000mm x 2000mm (approx.)]. B. Phillips (Curator). 13 Reeves Rd, Pakuranga, Auckland: Te Tuhi - The Mark, 3 August-20 October.
Exhibition	Jansen, M. H. (2013). Parkin Drawing Prize [Drawing. Items:'AO Folded Moire Drawing' pencil on paper, 1500mm x 1200mm]. H. Galbraith & W. Feeney (Curators). 1 Queens Wharf: New Zealand Academy of Fine Arts, 25 July-25 August.
Exhibition	Jansen, M. H. (2013). Reason & Romance [Painting. Items:1 painting in group exhibition, 'Iteration Blue', oilstick on canvas, 900mm x 800mm]. A. Bliteryst (Curator). Oudenaaksestraat 6b, Elingen, Belgium: 6b Gallery, 23 June-21 July.
Exhibition	Jansen, M. H. (2013). Precise Operations: A re-considering of modes of visibility and appearance in non-objective painting. [painting. Items:2 paintings: 'Iteration Blue' oilstick on canvas, 900mm x 800mm. 'Redundant Orange' screenprint on linen, 450mm x 370mm.]. A. Kennedy (Curator). Bleekhofstr. 44 Antwerp, Belgium: Factor 44 Gallery, 15 March-23 March.

### Jerlach, Lars

Publication type	Citation
Exhibition	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). Transforming Topographies [Installation, Object, Performance, Event, Painting, Spatial Design, Drawing, Model making, Participatory practice. Items:34]. H. Hanru (Curator). Auckland Art Gallery, Auckland, New Zealand: The Lab, 1 July-22 July.
Exhibition	Jerlach (tectonic-industries), L., & Stringfellow (tectonic-industries), H. (2013). Yeah Yeah, Whatever... [Video projection. Items:1]. B. E. Phillips (Curator). Te Tuhi Centre for the Arts: Te Tuhi, 16 March-16 March.
Exhibition	Jerlach (tectonic-industries), L., & Stringfellow (tectonic-industries), H. (2013). Untitled [Drawing/ Painting. Items:6]. T. Peterson (Curator). Minneapolis, USA: Franklin Artworks, 24 February-16 March.
Other form of output	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). The Lab Project Design [Installation/Event-based project; visual arts and spatial design; 68 projects developed into a final group of 34 projects]. Auckland, New Zealand: The Lab, Auckland Art Gallery.

### Jervis, Ian Hugh

Publication type	Citation
Exhibition	Jervis, I. H. (2013). In pursuit of pursuit [Oil on canvas. Items:5 paintings]. N. Spratt W. Hsu F. Ferrier F. Sandbrook T. Taiaroa & X. Cheng (Curators). 295 Karangahape Road, Newton, Auckland: Rm Gallery, 4 April-20 April.

### Jones, Linda Eleanor

Publication type	Citation
Chapter or section in books	Jones, L. E., & Burke, S. (2013). Getting Started; Oval and Triangle Technique; Fleshing Out; Face, Hands and Feet; Figure Templates; Drawing from Life: Clothing Design; Fabric Rendering; Fashion Presentations; Men; Children; and Fashion Portfolio. In S. Burke (Ed.), New Edition Fashion Artist: Drawing Techniques to Portfolio Presentation.. Auckland: Burke Publishing.

Kasier, Lesley Jane	
Publication type	Citation
Conference contribution - Poster	Kaiser, L.,Cochrane, T.,Spooner, H.,Karmokar, S.,Austin,, L.,Garden, E., ... Wilczynska, K. (2013, July). Graphic Design and 21st Century Bookworks: Implementing multimodal strategies to include e-pub and interactive pdf formats to complement traditional book formats. Poster presented at the HERDSA. Auckland University of Technology Auckland, New Zealand.

Karmokar, Sangeeta	
Publication type	Citation
Conference contribution - Poster	Kaiser, L.,Cochrane, T.,Spooner, H.,Karmokar, S.,Austin,, L.,Garden, E., ... Wilczynska, K. (2013, July). Graphic Design and 21st Century Bookworks: Implementing multimodal strategies to include e-pub and interactive pdf formats to complement traditional book formats. Poster presented at the HERDSA. Auckland University of Technology Auckland, New Zealand.

Kennedy, Jason	
Publication type	Citation
Conference contribution - Oral Presentation	Kennedy, J. (2013, July). Character Acting: A Case for Better Animation Reference. Presented at the PopCAANZ (Popular Culture Association of Australia & New Zealand). Brisbane, Australia.
Conference contribution - Paper in published proceedings	Kennedy, J. (2013). Character Acting: A Case For Better Animation Reference. In P. Mountfort, & D. Szapiro (Eds.),Character Acting: A Case For Better Animation Reference, (pp.11-20). Popular Culture Association of Australia and New Zealand (PopCAANZ).
Oral Presentation	Kennedy, J. (2013, March). Challenges in Teaching Animation. Presented at the 1st Annual Animations Revelations Conference, Auckland Art Museum, Auckland, New Zealand.

McEwan, Lisa	
Publication type	Citation
Artwork or artefact	Nakagawa, K., O'Brien, J., Wayers, A., McLeod, R., McEwan, L., & Evans-Mikellis, S. (2013). A Play "Catwalk" [seashells, railway sleepers, scaffolding, pallets, fabric and collaborators; Various dimensions]. Waiheke Island: Headland, Sculpture on the Gulf.
Conference contribution - Oral Presentation	McEwan, L. (2013, November). Fashion Sense: Participation and co-design for socially sustainable fashion. Presented at the Cumulus: More for less - Design in an age of austerity. Dublin, Ireland.
Conference contribution - Other	Wayers, A., McEwan, L., Evans-Mikellis, S., & Levey, A. (2013, September). A Play, CATWALK: Connecting diverse worlds through visual methods in participatory art. Paper presented at the 3rd International Visual Methods Conference. Visual Methods in Mediated Environments: Connecting Diverse Worlds. Wellington, New Zealand.
Oral Presentation	Nakagawa, K., McEwan, L., Evans-Mikellis, S., Levey, A., & Wayers, A. (2013, February). Headland Sculpture on the Gulf - Catwalk - Artists' talk / Panel discussion. Presented at the Headland Sculpture on the Gulf Pavilion, Waiheke Island, Auckland.
Oral Presentation	McEwan, L., Moore, R., Brown, M., Jacobs, L., & Cleveland, D. (2013, October). Sustainable Fashion: The complexities, challenges and opportunities. Presented at The Cloud, Auckland, New Zealand.

McIntyre, Simon	
Publication type	Citation
Exhibition	McIntyre, S. (2013). Drawings & Works on Paper 2013 [Drawing. Items:1 Work on Paper 750 x 1000mm]. W. Harsant (Curator). Northcote, Auckland: NorthArt Gallery, 19 July-14 August.
Exhibition	McIntyre, S. (2013). Three Colours Blue [Painting. Items:2 @ 450 x 605mm paintings]. T. Melville (Curator). Newmarket, Auckland: Tim Melville Gallery, 4 June-29 June.

Exhibition	McIntyre, S. (2013). The Nature of Things [Painting. Items:12 paintings ranging from 1800 x 2500mm to 200 x 405mm]. Simon McIntyre (Curator). Newmarket, Auckland: Tim Melville Gallery, 27 August-21 September.
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Mikellis, Andreas Michael	
Publication type	Citation
Artwork or artefact	Mikellis, A. M. (2013). The Language of Living; New Zealand Tour 2013 [fabric (various fibre); 34 pieces]. Auckland,Warkworth, Whangerei, Orewa, Hawkes Bay, Wellington.: ASB Theatre Aotea Centre, Mahurangi College Hall, Capitaine Bougainville Theatre, Orewa Arts and Events Centre, Hawkes Bay Opera House, Wellington Opera House.

Moore, Rachelle	
Publication type	Citation
Oral Presentation	McEwan, L., Moore, R., Brown, M., Jacobs, L., & Cleveland, D. (2013, October). Sustainable Fashion: The complexities, challenges and opportunities. Presented at The Cloud, Auckland, New Zealand.
Oral Presentation	Moore, R., Cleveland, D., Smitheram, M., & McEwan, L. (2013, October). The realities of sustainable fashion. Presented at The Cloud, Auckland.
Oral Presentation	Moore, R. (2013, August). Increasing Practical Knitwear Learning Through Digital Platforms. Presented at the Mareel and Shetland Museum & Archives, Lerwick, Shetland.

Muratovski, Gjoko	
Publication type	Citation
Chapter or section in books	Muratovski, G. (2013). Advertising, Public Relations and Social Marketing: Shaping Behaviour Towards Sustainable Consumption. In R. Crocker, & S. Lehmann (Eds.), Motivating Change: Sustainable Design and Behaviour in the Built Environment (pp.178-197). Oxford / New York, NY: Routledge.
Conference contribution - Oral Presentation	Muratovski, G. (2013, January). Totem: the religious dimensions of branding. Presented at the Popular Culture Association / American Culture Association Annual Conference. Washington, DC, USA.
Conference contribution - Oral Presentation	Muratovski, G. (2013, April). Nike and the 2012 London Olympics: conversation with Quan Payne. Presented at the agIdeas International Research Conference: Design for Business. Melbourne, Australia.
Confidential report for external body	Muratovski, G. (2013). External Moderator Report. [Commissioned by The University of Waikato].
Journal article	Muratovski, G. (2013). Urban Branding: The Politics of Architecture. Design Principles and Practices: An International Journal, 6(Annual Review), 45-58.
Journal article	Muratovski, G. (2013). The use of built environments in the formation and change of national identities: the case of Macedonia and 'Skopje 2014'. Postcolonial Europe.
Journal article	Muratovski, G. (2013). Sinclair, John, Advertising, The Media, and Globalisation: A World in Motion. Media International Australia. (147), 173-174.
Oral Presentation	Muratovski, G. (2013, October). Branding, Society and Popular Culture. Presented at the The University of Waikato, Hamilton, New Zealand.
Oral Presentation	Muratovski, G. (2013, March). Research Methods and Methodologies. Presented at the Swinburne University of Technology, Melbourne, Australia.
Other form of output	Muratovski, G. (2013). Theme Park in a Fortress: Architecture and Politics in Macedonia. The Conversation.

O'Connor, Maria Therese Scarlet	
Publication type	Citation
Conference contribution - Oral Presentation	O'Connor, M. (2013, December). Wildlife Refuge. Presented at the Deleuze Studies Conference. Lisbon Portugal.



Conference contribution - Oral Presentation	O'Connor, M. (2013, April). Night Time. Presented at the Auckland Art Gallery Auditorium.
Conference contribution - Oral Presentation	O'Connor, M. (2013, June). Dark Light: Writing Theatre. Presented at the PSi 19 Performance Studies International. Palo Alto, USA.
Conference contribution - Other	O'Connor, M., Harvey, M., Jackson, M., Wood, B., & McMeel, D. (2013, October). Imperfect Body. Paper presented at the Scanz On Nature. New Plymouth, New Zealand.
Oral Presentation	O'Connor, M. (2013, July). Informal Performances Series. Presented at the Auckland Old Folks Association (Performance Venue), 8 Gundry Street, Newton, Auckland.
Other form of output	O'Connor, M. (2013). Outposts. Performance Studies International Performance Philosophy Working Group.

### O'Hara, Emily

Publication type	Citation
Exhibition	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). Transforming Topographies [Installation, Object, Performance, Event, Painting, Spatial Design, Drawing, Model making, Participatory practice. Items:34]. H. Hanru (Curator). Auckland Art Gallery, Auckland, New Zealand: The Lab, 1 July-22 July.
Other form of output	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). The Lab Project Design [Installation/Event-based project; visual arts and spatial design; 68 projects developed into a final group of 34 projects]. Auckland, New Zealand: The Lab, Auckland Art Gallery.

### Potter, Eden Jacqueline

Publication type	Citation
Conference contribution - Abstract	Potter, E. J. (2013). 'You need to research your subject so you know the subject well, and your users so you know what they need'. Teaching graphic design using information design principles [Abstract]. In CIDI 2013 Conference Programme, (pp.63-63). Recife, Brazil.
Conference contribution - Poster	Kaiser, L., Cochrane, T., Spooner, H., Karmokar, S., Austin, L., Garden, E., ... Wilczynska, K. (2013, July). Graphic Design and 21st Century Bookworks: Implementing multimodal strategies to include e-pub and interactive pdf formats to complement traditional book formats. Poster presented at the HERDSA. Auckland University of Technology Auckland, New Zealand.
Journal article	Potter, E. J. (2013). 'You need to research your subject so you know the subject well, and your users so you know what they need'. Teaching graphic design using information design principles. InfoDesign - Brazilian Journal of Information Design, 10(1), 55-69.

### Reay, Stephen David

Publication type	Citation
Conference contribution - Paper in published proceedings	Reay, S. D., & Withell, A. J. (2013). Educating multidisciplinary postgraduate product design students: challenges for a new programme. In J. B. Reitan, P. Lloyd, E. Bohemia, L. M. Nielsen, I. Digranes, & E. Lutnaes (Eds.), Design Learning for Tomorrow. ABM-media.

### Redmond, Monique

Publication type	Citation
Chapter or section in books	Redmond, M., Eccleston, T., & Suburban Floral Association, (2013). Notes on the making of an urban garden   Shopfront, a work by the Suburban Floral Association. In D. Jansen, & J. Gillam (Eds.), An urban quest for chlorophyll. Newton, Auckland, New Zealand: RIM BOOKS.
Conference contribution - Oral Presentation	Redmond, M., & Gallagher, S. (2013, October). Everyday Goings-on; intersecting points where context meets conversation. Presented at the The Image conference. Chicago, USA.
Exhibition	Redmond, M. (2013). As if you were bringing back dust from the moon [Driveby photographs. Items:226 individual photographs compiled into one work]. T. Williams & A. D. Schierning (Curators). Papakura, South Auckland: Papakura Art Gallery, 14 December-25 January.
Exhibition	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). Transforming Topographies [Installation, Object, Performance, Event, Painting, Spatial Design, Drawing, Model making, Participatory practice. Items:34]. H. Hanru (Curator). Auckland Art Gallery, Auckland, New Zealand: The Lab, 1 July-22 July.

Oral Presentation	Redmond, M., & Lilo, J. (2013, July). Janet Lilo in conversation with Monique Redmond for the 5th Auckland Triennial. Presented at the Artspace, Auckland, New Zealand.
Oral Presentation	Redmond, M. (2013, September). Transforming Topographies and collaborative practice. Presented at the Carnegie Mellon University, College of Fine Arts, Pittsburgh, USA.
Other form of output	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). The Lab Project Design [Installation/Event-based project; visual arts and spatial design; 68 projects developed into a final group of 34 projects]. Auckland, New Zealand: The Lab, Auckland Art Gallery.

### Reilly, Lyle Martin

Publication type	Citation
Conference contribution - Oral Presentation	Reilly, L. M. (2013, September). Responsive e-textiles for dance. Presented at the 1st International Conference on Digital Technologies for the Textile Industries. Manchester, UK.

### Robertson, Natalie

Publication type	Citation
Exhibition	Robertson, N., Bywater, J., Monteith, A., Butt, D., & Pohio, N. (2013). Local Time Waitaha wai October 2013 (+1200) [Performance/Action. Items:Multiple actions]. Christchurch: Physics Room, 25 October-28 December.
Exhibition	Robertson, N. (2013). Te Urewera Conversations. Multiple-artists' response to Te Urewera – the place, the people, the history. [Photographs and video. Items:3]. H. Pettengell (Curator). Whakatane: Te Whare Taonga o te rohe o Whakatane (Whakatane Museum and Gallery), 25 November-19 January.
Exhibition	Robertson, N. (2013). The Headlands Await Your Coming. [Photographs. Items:22]. P. McNamara (Curator). Whanganui: McNamara Gallery, 4 May-31 May.
Exhibition	Robertson, N., Bywater, J., Butt, D., & Monteith, A. (2013). If you were to live here.... The 5th Auckland Triennial. Local Time: Waiariki. H. Hou (Curator). Auckland: Artspace, George Fraser Gallery, Gus Fisher Gallery, St Paul St Gallery, Fresh., 9 May-11 August.
Oral Presentation	Robertson, N. (2013, May). Communiquē 2013 Lecture series - Natalie Robertson, AUT/Local Time. Presented at the Auckland Art Gallery Auditorium, Auckland.
Other form of output	Robertson, N., Butt, D., Bywater, J., & Monteith, A. (2013). Local Time: Sarai Reader 09. Art as a Place. Sarai Reader Gurgaon, Delhi, India.: Devi Art Foundation. Retrieved from <a href="http://www.sarai.net/">http://www.sarai.net/</a>

### Sinfield, David

Publication type	Citation
Chapter or section in books	Sinfield, D. (2013). The Business of Type: A typographical consideration of local business signage in Otara South Auckland, New Zealand. In R. Hoskin (Ed.), Typographical Typography—North Island Typographic Study (pp.64-85). Palmerston North, NZ: Palmerston North, NZ. :UCOL. 2013.
Conference contribution - Oral Presentation	Sinfield, D. (2013, June). One Size Doesn't Fit All: Teaching Graphic Design through a Moodle based ePortfolio. Presented at the MoodleMoot—Moodle & Beyond. Melbourne Australia.
Conference contribution - Oral Presentation	Sinfield, D. (2013, March). Thinking and Doing: Enhancing the Learning and Teaching of Graphic Design through the Use of Digital Technologies. Presented at the Design Principles and Practices. Chiba, Japan.
Conference contribution - Paper in published proceedings	Sinfield, D. (2013). Corporate or Community: A typographical exploration of how signage is used in local businesses within South Auckland, New Zealand. In Corporate or Community: A typographical exploration of how signage is used in local businesses within South Auckland, New Zealand.. Chicago USA.
Conference contribution - Poster	Sinfield, D. (2013, July). Community of eLearning: creating a community of learning through an ePortfolio website. Poster presented at the HERDSA 2013 (Higher Education Research and Development Society of Australia). Auckland, New Zealand.
Exhibition	Sinfield, D., Tong Ho, K., Austin, L., & Piper, G, (2013). Four Quarters: a collection of works from four different artists [Motor bike tanks, prints and sculpture. Items:16 pieces]. Symonds Street, Auckland, NZ: St Paul Street Gallery 3, 12 August-16 August.
Journal article	Sinfield, D. (2013). Graphic Design in a Digital World: Enhancing graphic design teaching through digital technologies. The International Journal of Design Education, 7(1), 57-64.

Journal article	Sinfield, D. (2013). Social Commentary from the Graphic Designer: Workers stories expressed through Serigraphic Translations. <i>The International Journal of Visual Design</i> , 6(1), 67-82.
Oral Presentation	Sinfield, D. (2013, July). Narrative Inquiry: And how I use it in my research. Presented at the Manukau campus.

### Smith, Amanda Elizabeth

Publication type	Citation
Artwork or artefact	Smith, A. E. (2013). Seamless Knitwear: Singularities in Design [Seamless knitwear garments; 30]. 39 Symonds St, Auckland, New Zealand: Gallery 3, St Pauls St Gallery.
Awarded Doctoral Thesis	Smith, A. E. (2013). Seamless Knitwear: Singularities in design (Unpublished Doctoral Thesis). AUT University, Auckland New Zealand.
Conference contribution - Oral Presentation	Smith, A. E., & Smith, M. (2013, December). Past, Present and Future: A Haptic Approach to Mass-Production Seamless Knitwear Technologies. Presented at the Making Futures 3. Plymouth, UK.
Conference contribution - Paper in published proceedings	Smith, A. E., & Finn, A. (2013). Built for Niche: Rethinking the Role of Manufacturing in Developing Designer Fashion in New Zealand. In <i>Second International Non-Western Fashion Conference</i> . London College of Fashion.
Exhibition	Smith, A. E. (2013). 'Stretching the Limits in Knit Research' symposium [Seamless Knitwear garments in Merino wool. Items:30]. A. Smith (Curator). Symonds St, Auckland, New Zealand: St. Pauls St. Gallery 3, 11 December-11 December.

### Thomson, Andrew

Publication type	Citation
Exhibition	Thomson, A., Cullen, P., Morgan, K., Kosloff, L., Waerea, L., Barber, B., ... Wickcliffe, C. A. (2013). Weak Force 4 [Multi. Items:Multiple Components and events]. C. Huddleston (Curator). Aut: St Paul Street Gallery, 22 November-20 December.
Exhibition	Thomson, A., Barber, B., Cullen, P., Kosloff, L., Morgan, K., Hansen, E., ... Sansom, M. (2013). Weakforce 3 [mixed media installation]. L. Ihnbum (Curator). Sanmyung University: Space Zero Gallery, 22 May-31 May.
Exhibition	Thomson, A., Sansom, M., Cullen, P., Barber, B., Morgan, K., Kosloff, L., ... Hansen, E. (2013). Weakforce 2 [mixed media/installation]. J. Baker & M. Sansom (Curators). Surrey University, Guilford, UK: Lewis Elton Gallery, 25 February-8 March.
Other form of output	Thomson, A. (2013). Ibid. Essay in the catalogue for Daniel von Sturmer's photographic exhibition "After images".

### Wilczynska, Karol

Publication type	Citation
Conference contribution - Poster	Wilczynska, K. (2013, August). Renominating Douglas Cockerell's 1901 Bookbinding, and the care of books; a handbook for amateurs, bookbinders and librarians. Poster presented at the IFLA World Library and Information Congress 79th IFLA General Conference and Assembly. Singapore.
Conference contribution - Poster	Kaiser, L., Cochrane, T., Spooner, H., Karmokar, S., Austin, L., Garden, E., ... Wilczynska, K. (2013, July). Graphic Design and 21st Century Bookworks: Implementing multimodal strategies to include e-pub and interactive pdf formats to complement traditional book formats. Poster presented at the HERDSA. Auckland University of Technology Auckland, New Zealand.
Journal article	Wilczynska, K. (2013). In Remembrance: Practiced-based Research on the Metaphoric Representation of the Death of the Book. <i>THE INTERNATIONAL JOURNAL OF THE BOOK</i> , 10(2), 27-38.

### Withell, Andrew John

Publication type	Citation
Conference contribution - Paper in published proceedings	Cochrane, T., Antonczak, L., Guinibert, M., Withell, A., Mulrennan, D., Mountfort, P., ... Narayan, V. (2013). Collaboration unplugged: Herding a flock of MOAs. In H. Carter, & J. Hedberg (Eds.), <i>Electric Dreams: 30th ascilite Conference</i> . Ascilite.

Conference contribution - Paper in published proceedings	Withell, A. J., & Haigh, N. (2013). Developing design thinking expertise in higher education. In J. B. Reitan, P. Lloyd, E. Bohemia, L. M. Nielsen, I. Digranes, & E. Lutnaes (Eds.), <i>The 2nd International Conference for Design Education Researchers, Design Learning for Tomorrow</i> . ABM-media.
Conference contribution - Paper in published proceedings	Reay, S. D., & Withell, A. J. (2013). Educating multidisciplinary postgraduate product design students: challenges for a new programme. In J. B. Reitan, P. Lloyd, E. Bohemia, L. M. Nielsen, I. Digranes, & E. Lutnaes (Eds.), <i>Design Learning for Tomorrow</i> . ABM-media.
Journal article	Cochrane, T., & Withell, A. (2013). Augmenting design education with mobile social media: A transferable framework. <i>Journal of the NUS teaching academy (JNUSTA)</i> , 3(4), 150-168.

### Yap, Boi Leong

Publication type	Citation
Conference contribution - Abstract	Yap, B. L. (2013). Sociopolitical Shaping of Deterministic Culture of the Hakka People. [Abstract]. In <i>Proceedings Shanghai International Conference on Social Science</i> , one(one), (pp.183-183). Shanghai International Conference on Social Science.
Conference contribution - Paper in published proceedings	Yap, B. L. (2013). Scholarship & Connoisseurship Symbiosis in Postgraduate Design Education. In T. Jachna, Y. Y. Lum, & Y. Tzvetanova (Eds.), <i>itation - Creating with Constraints. DesignEd Asia Conference 2013</i> , one(one), (pp.293-302). DesignEd Asia Conference Secretariat, The Hong Kong Polytechnic University.

### Young, Alan

Publication type	Citation
Conference contribution - Poster	Kaiser, L., Cochrane, T., Spooner, H., Karmokar, S., Austin, L., Garden, E., ... Wilczynska, K. (2013, July). Graphic Design and 21st Century Bookworks: Implementing multimodal strategies to include e-pub and interactive pdf formats to complement traditional book formats. Poster presented at the HERDSA. Auckland University of Technology Auckland, New Zealand.

### Young, Elvon

Publication type	Citation
Exhibition	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). Transforming Topographies [Installation, Object, Performance, Event, Painting, Spatial Design, Drawing, Model making, Participatory practice. Items:34]. H. Hanru (Curator). Auckland Art Gallery, Auckland, New Zealand: The Lab, 1 July-22 July.
Other form of output	Redmond, M., Jansen, D., Jerlach, L., O'Hara, E., & Young, E. (2013). The Lab Project Design [Installation/Event-based project; visual arts and spatial design; 68 projects developed into a final group of 34 projects]. Auckland, New Zealand: The Lab, Auckland Art Gallery.



## B - Research Outputs

### Colab

#### Charlton, James

Publication type	Citation
Conference contribution - Oral Presentation	Charlton, J. (2013, October). Actions of Matter. Presented at the Post Digital Research Conference. Aarhus, Denmark.
Conference contribution - Oral Presentation	Charlton, J. (2013, September). Making space on the workbench – the methodological implications of Computer Aided Design on art and design practice. Presented at the Return to the material. University of Kansas - Lawrence, Kansas, USA.
Conference contribution - Oral Presentation	Charlton, J. (2013, December). Acts of Materiality. Presented at the Making Futures. Plymouth, Devon, UK.
Conference contribution - Oral Presentation	Charlton, J. (2013, September). Exhalent Gestures: Inter-subjective Agency and Digital Materiality. Presented at the Corporeal Computing: A Performative Archaeology of Digital Gesture. Guildford, UK.
Exhibition	Charlton, J., & Dadson, P. (2013). Bodytok Quintet: The Human Instrument Archive [Interactive Installation. Items:1]. Corner of Madras and St Asaph Streets, Christchurch: Artbox, 27 September-9 November.
Oral Presentation	Charlton, J. (2013, September). Actions of Matter. Presented at the Plymouth University.

#### Joseph, Frances

Publication type	Citation
Conference contribution - Paper in published proceedings	Joseph, F. (2013). Collaborative Registers of Interactive Art. In K. Cleland, L. Fisher, & R. Harley (Eds.), Proceedings of the 19th International Symposium of Electronic Art, ISEA2013, Sydney. ISEA International, the Australian Network for Art & Technology and the University of Sydney.
Journal article	Joseph, F. (2013). Collaborative Making: Developing expressive e-textiles for dance. Studies in Material Thinking, 9(August 2013), 1-12.
Oral Presentation	Joseph, F. (2013, October). The Textile and Design Laboratory. Presented at the School of Textiles, Loughborough University, Loughborough UK.
Oral Presentation	Joseph, F. (2013, October). Dynamic Textiles Project: Research in collaboration with industry. Presented at the TI03, Ronse, Belgium.
Oral Presentation	Joseph, F., Hugain LaCirre, N., Silver, H., & Newall, K. (2013, September). POP:Share Round #2 Foster and develop an interactive art community. Presented at the Room WA224, Sir Paul Reeves Building,, AUT Auckland.

#### Kenobi, Ben Tuhoe

Publication type	Citation
Journal article	Cermak-Sassenrath, D., Watkins, C., & Kenobi, B. (2013). Media filter access. ACM International Conference Proceeding Series.

#### Marks, Stefan

Publication type	Citation
Conference contribution - Poster	Wellington, R., & Marks, S. (2013, January). An Ethnographic Study of a High Cognitive Load Driving Environment. Poster presented at the AUIC 2013. Adelaide, Australia.
Conference contribution - Poster	Marks, S., & Wellington, R. (2013, January). Experimental Study of Steer-by-Wire Ratios and Response Curves in a Simulated High Speed Vehicle. Poster presented at the AUIC 2013. Adelaide, Australia.

Exhibition	van Melle, G., & Marks, S. (2013). Sound Bites [Sound transformed into 3D shapes made of chocolate. Items:1]. van Melle (Curator). 39 Symonds St, Auckland: St Paul Street Gallery 3, 18 December-18 December.
Oral Presentation	Marks, S., & van Melle, (2013, September). Digital Nationz 2013 - New Tech Horizons. Presented at the Vector Arena, Auckland.

#### Van Melle, Gerbrand Marien

Publication type	Citation
Exhibition	van Melle, G., & Marks, S. (2013). Sound Bites [Sound transformed into 3D shapes made of chocolate. Items:1]. van Melle (Curator). 39 Symonds St, Auckland: St Paul Street Gallery 3, 18 December-18 December.
Oral Presentation	Marks, S., & van Melle, (2013, September). Digital Nationz 2013 - New Tech Horizons. Presented at the Vector Arena, Auckland.
Other form of output	Van Melle, G. (2013). Sound Bites: A work in process. Design Assembly.

#### Walker, Charles

Publication type	Citation
Conference contribution - Paper in published proceedings	Walker, C., Eimke, A., Watkins, C., Antonczak, L., & Tiatia, A. (2013). Exquisite, apart: Remoteness and Resistance. In K. Cleland, L. Fisher, & R. Harley (Eds.), Resistance is Futile: Proceedings of the 19th International Symposium of Electronic Art, ISEA2013, Sydney. ISEA International.

#### Watkins, Clinton Ron

Publication type	Citation
Artwork or artefact	Watkins, C., Von Sturmer, D., Galloway, B., Holloway-Smith, B., Parkes, M., Heynes, M., ... Contag, J. (2013). Goodnight Kiwi or; Tonights broadcast has now ended, regular transmission will resume at 6am [video; 1]. Berlin: ikono on air festival.
Chapter or section in books	Watkins, C. (2013). Foggy Notion. In T. Williams (Ed.), Dust from the Moon. Papakura Art Gallery.
Composition	Watkins, C. (2013). Pigs Devouring The Hellenic, Italic And Iberic Peninsulas. Sound composition for video artwork by Santiago Sierra.
Conference contribution - Other	Watkins, C., Walker, C., Eimke, A., Tiatia, A., & Antonczak, L. (2013, October). Exquisite, Apart: Remoteness and Resistance. Paper presented at the International Symposium on Electronic Art. Sydney, Australia.
Exhibition	Watkins, C., Agnew, R., Bertoli, D., Carr, S., Franco, H., Greatest Hits,, ... Zoric, S. (2013). Video Arte Australia y Nueva Zelanda [video / sound. Items:2]. M. Feary & B. Keldoulis (Curators). Centro Cultural Matucana 100 (M100) Santiago, Chile: Centro Cultural Matucana 100 (M100), 6 December-26 January.
Exhibition	Watkins, C., Afoa, L., Small, K., Redmond, M., Lowe, A., Cleland, R., ... Chiang, L. (2013). As if you were bringing back dust from the moon [video / sound. Items:1]. T. Williams & A. Schiarning (Curators). Papakura Art Gallery Auckland: Papakura Art Gallery, 7 December-4 January.
Exhibition	Watkins, C., Guo, M., Carter, R., & Zhou, L. (2013). Timing Spaces [video / sound installation. Items:1]. N. Hugain-Lacire (Curator). North Art Auckland: North Art, 3 February-22 February.
Exhibition	Watkins, C., Monteith, A., Ward Knox, J., Munro, S., Darragh, J., Shearer, R., ... Robertson, N. (2013). Temporary Mechanisms [Sound. Items:1]. Gow Langsford Gallery Auckland: Gow Langsford Gallery, 27 February-16 March.
Exhibition	Watkins, C. (2013). Eternal Wave [video / sound. Items:1]. Audio Foundation Auckland: Audio Foundation, 6 June-6 July.
Exhibition	Watkins, C. (2013). Frequency Colour [video / sound installation. Items:1]. Starkwhite Gallery Auckland: Starkwhite Gallery, 25 July-16 August.
Exhibition	Watkins, C., Agnew, R., Bertoli, D., Carr, S., Franco, H., Grasso, L., ... Q. L., D. (2013). Contemporary Video / Sydney Contemporary 2013 [video / sound. Items:2]. M. Feary (Curator). Carraigeworks Sydney: Carraigeworks, 19 September-22 September.

Exhibition	Watkins, C., Liversidge, A., Mitchell, K., Anker-Payne, A., Monteith, A., & Carr, S. (2013). Landscape Painting: Recent Video Art from Australia and New Zealand [video / sound. Items:2]. M. Feary (Curator). One & J Gallery Seoul, Korea: One & J Gallery, 28 November-21 December.
Exhibition	Watkins, C., Just, J., The Complaint Choir., & Biggs, J. (2013). Crosstalk [video / sound. Items:2]. B. A. Rosenberg (Curator). Contemporary Art Galleries University of Connecticut: Contemporary Art Galleries, 11 November-17 November.
Exhibition	Watkins, C., Adams, M., Cleland, R., Currin, G., Freeman, W., Jackman, A., ... Sheehan, J. (2013). Idyll [video/sound. Items:1]. M. Blomeley (Curator). New Zealand Steel Gallery, Franklin Arts Centre 12 Massey Avenue, Pukekohe: New Zealand Steel Gallery, Franklin Arts Centre, 9 November-21 December.
Journal article	Cermak-Sassenrath, D., Watkins, C., & Kenobi, B. (2013). Media filter access. ACM International Conference Proceeding Series.
Oral Presentation	Watkins, C., Russell, B., Reihana, L., Clifford, A., & Kerr, S. (2013, May). Sound Bleed. Presented at the AUT WS222, Level 2, 34 St Paul St, AUT Auckland.
Performance	Watkins, C., Willets, A., Huf,., & Indi, (2013, June). Clinton Watkins / Adam Willets / Huf / Indi [Music]. Audio Foundation Auckland: Audio Foundation.
Performance	Watkins, C., & Watkins, D. (2013, October). The Watkins [Music]. Papakura Art Gallery Auckland: Papakura Art Gallery.
Performance	Watkins, C., Newall, K., & Carter, R. (2013, March). Concretions [Other]. Auckland: 6 pack silos.

## C - Research Outputs

### Communication Studies

#### Barnes, Marilyn

Publication type	Citation
Journal article	Barnes, L. (2013). Good grief: The newspaper obituary in New Zealand. TEXT, Special Issue(21).
Journal article	Olds, J., & Barnes, L. (2013). 'We look after our own': The cultural dynamics of celebrity in a small country. Pacific Journalism Review, 19(2), 86-106.
Journal article	Barnes, L. (2013). A trauma shake-up: Are NZ graduates being prepared for the real world? Pacific Journalism Review, 19(1), 282-289.

#### Cocker, Alan Robert

Publication type	Citation
Conference contribution - Oral Presentation	Cocker, A. R. (2013, February). Love Wedding, Waikawa. Presented at the Colonial Objects. Dunedin, New Zealand.
Other form of output	Cocker, A. R. (2013). No, Minister, this isn't good enough. [Newspaper]. New Zealand Herald, 29-29. Auckland: New Zealand Herald.

#### Elers, Steven Wayne

Publication type	Citation
Journal article	Elers, S., & Elers, P. (2013). He aha tenei? A Content Analysis of Maori Representation on the New Zealand Police Homepage. Australasian Policing: A Journal of Professional Practice and Research, 5(2), 35-37.

#### Frommherz, Gudrun

Publication type	Citation
Conference contribution - Oral Presentation	Frommherz, G. (2013). Uncanny New Sciences: Visions of the Transhuman Body. Presented at the Gothic Association of New Zealand and Australia Conference. Auckland, New Zealand.
Journal article	Frommherz, G. (2013). Memetics of Transhumanist Imagery. Visual Anthropology, 26(2), 147-164. doi:10.1080/08949468.2013.754649

#### Gordon, Averil

Publication type	Citation
Journal article	Cochrane, T., Buchem, I., Camacho, M., Cronin, C., Gordon, A., Keegan H. (2013). Building global learning communities. Research in Learning Technology 21(21955):1-13

#### Guinibert, Matthew

Publication type	Citation
Conference contribution - Paper in published proceedings	Cochrane, T., Antonczak, L., Guinibert, M., Withell, A., Mulrennan, D., Mountfort, P., ... Narayan, V. (2013). Collaboration unplugged: Herding a flock of MOAs. In H. Carter, & J. Hedberg (Eds.), Electric Dreams: 30th ascilite Conference. Ascilite.
Hoar, Peter	
Publication type	Citation
Awarded Doctoral Thesis	Hoar, P. (2013). Hearing the World: Audio Technologies and Listening in New Zealand, 1879-1939. Doctoral Thesis. University of Auckland, Auckland.
Conference contribution - Oral Presentation	Hoar, P. (2013, July). Beethoven in the Backblocks: Classical Music and Public Radio in New Zealand. Presented at the The Radio Conference 2013. Luton, United Kingdom.



Oral Presentation	Hoar, P. (2013, November). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, November). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, October). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, September). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, September). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, August). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, August). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, July). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, July). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, May). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, May). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, May). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, March). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, March). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, March). Live Concert Review on RNZ Concert's 'Upbeat' Arts Programme.
Oral Presentation	Hoar, P. (2013, November). Michael Houstoun Performs the Complete Beethoven Piano Sonata Cycle. Presented at the Auckland Town Hall, Auckland.
Other form of output	Hoar, P. (2013). Composer of the Week: Morton Gould (1913-1996) [Radio; 27 Minutes]. Radio New Zealand.
Other form of output	Hoar, P. (2013). Appointment: Charles Burney (1726-1814) [Radio; 54 Minutes]. Radio New Zealand.
Other form of output	Hoar, P. (2013). Composer of the Week: Giuseppe Tartini (1692-177) [Radio; 27 minutes].
Other form of output	Hoar, P. (2013). Britten's Words: RNZ Concert Appointment [Radio; 54 Minutes]. Radio New Zealand.
Other form of output	Hoar, P. (2013). Composer of the Week The life and music of CARLO GESUALDO (c1561-1613) [Radio; 27 Minutes].

### Johnson, Rosser James Kereama

Publication type	Citation
Conference contribution - Oral Presentation	Johnson, R. J. K. (2013, June). An integrated hour: blending entertainment and commercial speech within and across Masterchef New Zealand. Presented at the IAMCR 2013 Crises, 'Creative Destruction' and the Global Power and Communication Orders. Dublin, Ireland.
Conference contribution - Oral Presentation	Johnson, R. J. K., & Nelson, F. N. (2013, June). Chewing wastes time - a critical examination of "extreme eating". Presented at the IAMCR 2013 Crises, 'Creative Destruction' and the Global Power and Communication Orders. Dublin, Ireland.
Conference contribution - Oral Presentation	Johnson, R. J. K. (2013, June). Sweetening the product: combining entertainment and promotional messages within and across Chelsea New Zealand's Hottest Home Baker. Presented at the Fourth Annual POPCAANZ Conference. Brisbane, Australia.
Journal article	Johnson, R. J. K., & King, D. B. (2013). Trials of Celebrity. Pacific Journalism Review, 19(2), 7-10.
Journal article	Johnson, R. J. K. (2013). The Emergence of the Infomercial in New Zealand 1993-1997. The Political Economy of Communication, 1(1), 43-70.
Journal article	Johnson, R. J. K., & Bieldt, N. (2013). Suzanne Paul: Scandal, celebrity and the selling of an infomercial queen. Pacific Journalism Review, 19(2), 49-69.

### King, Barrymore John

Publication type	Citation
Journal article	King, B. J. (2013). A strain of Heroes. Pacific Journalism Review, 19(2), 11-26.
Journal article	Johnson, R. J. K., & King, D. B. (2013). Trials of Celebrity. Pacific Journalism Review, 19(2), 7-10.

Journal article	King, B. J. (2013). On Servility and celebrity. Celebrity Studies. 100-102. doi:10.1080/19392397.2013.750130
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### Lavranos, Eileen Pamela

Publication type	Citation
Oral Presentation	Lavranos, E. P. (2013, December). Hope Uncovered. Presented at the WG906, WG AUT.

### Lee, Allan Blake

Publication type	Citation
Journal article	Lee, A. B. (2013). Old hands advise the new. Pacific Journalism Review, 19(2), 250-251.
Journal article	Lee, A., & Treadwell, G. (2013). Online news style-poking a hornet's nest: A preliminary investigation into online styles in Australian and New Zealand newspapers. Pacific Journalism Review, 19(1), 264-281.
Journal article	Lee, A., Xu, Y., & Hyde, K. (2013). Factors influencing investor choice of retirement funds. Journal of Financial Services Marketing, 18(2), 137-151. doi:10.1057/fsm.2013.8

### Marbrook, Jim

Publication type	Citation
Awarded Research Master's Thesis	Marbrook, J. (2013). King Tide - Exegesis (Unpublished Master's Thesis/Postgraduate Dissertation). AUT, Wellesley St, Auckland.

### Mollgaard, Matt

Publication type	Citation
Conference contribution - Oral Presentation	Mollgaard, M. (2013, July). Providing stability or picking winners? Dilemmas of deregulated radio. Presented at the The Radio Conference: A Transnational Forum. Luton, United Kingdom.

### Mules, Philippa Anne

Publication type	Citation
Conference contribution - Oral Presentation	Mules, P. A. (2013, June). 'The Wonderland of Knowledge - An Up-To-Date Illustrated Encyclopaedia': A modal analysis of changing epistemologies. Presented at the The Fourteenth Annual Convention of the Media Ecology Association : Media Ecology Unplugged. Grand Rapids Michigan, USA.
Journal article	Mules, P. A. (2013). Challenging the conventions of personal correspondence: Txting times for literacy snobs. TEXT, Journal of writing and writing courses, Number 23(Special Issue Website Series), 1-11.

### Mulrennan, Danielle Louise

Publication type	Citation
Conference contribution - Paper in published proceedings	Mulrennan, D. L., Cochrane, T., Sissons, H., Pamatatau, R., & Barnes, L. (2013). Mobilizing Journalism Education. In L. Morris, & C. Tsolakidis (Eds.), ICICTE 2013, (pp.283-293). Crete, Greece.
Conference contribution - Paper in published proceedings	Cochrane, T., Antonczak, L., Guinibert, M., Withell, A., Mulrennan, D., Mountfort, P., ... Narayan, V. (2013). Collaboration unplugged: Herding a flock of MOAs. In H. Carter, & J. Hedberg (Eds.), Electric Dreams: 30th ascilite Conference. Ascilite.
Journal article	Mulrennan, D. L. (2013). Deaf see TV news differently: A first step in finding a better path to knowledge. Multimodal Communication Journal, 2(1), 85-108.
Journal article	Mulrennan, D. L., Cochrane, T., Sissons, H., & Pamatatau, R. (2013). Journalism 2.0: Exploring the impact of Mobile and Social Media on Journalism Education. International Journal of Mobile and Blended Learning, 5(2), 22-38.

### Musgrave, Diane Patricia

Publication type	Citation
Conference contribution - Other	Musgrave, D. P. (2013, April). Made for TV with Jane Robertson and Mark McNeill. Paper presented at the Screen Edge Forum 2013. AUT Wellesley St Auckland.

Norris, Sigrid	
Publication type	Citation
Conference contribution - Oral Presentation	Norris, S. (2013). Analysing an art school: Multimodal mediated analysis of the practice of painting. Presented at the 4th New Zealand Discourse Conference. Auckland, NZ.
Oosterman, Allison	
Publication type	Citation
Chapter or section in books	Oosterman, A. (2013). From Picardy to Picton. In N. Philippe, J. Crawford, C. Pugsley, & M. Strohn (Eds.), <i>The great adventure ends: New Zealand and France on the Western Front</i> (pp.223-240). Christchurch: John Douglas Publishing.
Conference contribution - Oral Presentation	Oosterman, A. (2013, December). The Appointment of New Zealand War Correspondents for World War II. Presented at the 8th Australian Media Traditions. Brisbane, Australia.
Piatti-Farnell, Lorna	
Publication type	Citation
Authored Book	Piatti-Farnell, L. (2013). <i>Beef: A Global History</i> . London: Reaktion.
Chapter or section in books	Piatti-Farnell, L. (2013). In the Guise of Character: Costumes, Narrative, and the Reality of Artifice in <i>Thelma &amp; Louise</i> . In A. Barkman, A. Barkman, & N. Kang (Eds.), <i>The Culture and Philosophy of Ridley Scott</i> (pp.231-241). Lanham, MD: Rowman & Littlefield.
Conference contribution - Oral Presentation	Piatti-Farnell, L. (2013, August). Cyber-fangs: Vampires, Digital Technologies, and Narrative Realities. Presented at the Eleventh Biennial Conference of the International Gothic Association. Guildford, UK.
Conference contribution - Oral Presentation	Piatti-Farnell, L. (2013, June). Uncanny Looks and Monstrous Narratives: Approaching the Vampire Genre in Contemporary Popular Literature. Presented at the Annual Conference of the Popular Cultural Association of Australia and New Zealand. Brisbane, Australia.
Conference contribution - Oral Presentation	Piatti-Farnell, L. (2013, May). Blood Ties: Representations of the Family in Contemporary Vampire Narratives. Presented at the Third Asian Conference for Cultural Studies. Osaka, Japan.
Conference contribution - Oral Presentation	Piatti-Farnell, L. (2013, January). The Money and the Fangs: Reading the Vampire as a Branded Space. Presented at the Inaugural Conference of the Gothic Association of New Zealand and Australia. Auckland, New Zealand.
Journal article	Piatti-Farnell, L. (2013). Blood, Biceps, and Beautiful Eyes: Cultural Representations of Masculinity in Masami Kurumada's <i>Saint Seiya</i> . <i>Journal of Popular Culture</i> , 46(6), 1133-1155.
Journal article	Piatti-Farnell, L. (2013). Sure to rise: Reading the Edmonds cookery book as a popular icon. <i>TEXT</i> . (Special Issue 24), 11.
Journal article	Piatti-Farnell, L. (2013). Word from the Culinary Crypt: Reading the Cookbook as a Haunted/Haunting Text. <i>M/C: The Journal of Media and Culture</i> , 16(3).
Plant, Trevor James	
Publication type	Citation
Other form of output	Plant, T. J. (2013). <i>The Great Big Kids' Show</i> with Suzy Cato. New Zealand on Air / Treehut Ltd.
Rahman, Khairiah	
Publication type	Citation
Conference contribution - Oral Presentation	Rahman, K. (2013, July). Tearing and restoring the moral fabric of society in Asian romance movies. Presented at the 22nd Annual AMIC (Asian Media Information and Communication) Conference. Yogyakarta, Indonesia.
Conference contribution - Paper in published proceedings	Rahman, K. (2013). Crisis miscommunication and media persecution: The case of Singapore Mass Rapid Transit. Chulalongkorn University, Bangkok, Thailand.
Journal article	Rahman, K. (2013). Life imitating art: Asian romance movies as a social mirror. <i>Pacific Journalism Review</i> , 19(2), 107-121.

Journal article	Rahman, K. (2013). Crisis Miscommunication: The Case of the SMRT (Singapore Mass Rapid Transit). <i>Media Asia</i> , 40(3), 244-259.
Robie, David Telfer	
Publication type	Citation
Authored Book	Robie, D. (2013). <i>Don't spoil my beautiful face: Media, mayhem and human rights in the Pacific</i> . Auckland: Little Island Press.
Commissioned report for external body	Robie, D. (2013). Fiji, New Zealand, Papua New Guinea, Samoa, Solomon Islands and Tonga. [Commissioned by Freedom House, New York]. New York: Freedom House.
Conference contribution - Oral Presentation	Robie, D. (2013, July). Deliberative journalism, environmental risk and media credibility. Presented at the Islands and Nations: 'Failed states' and the environment in the Pacific. Suva, Fiji.
Conference contribution - Oral Presentation	Robie, D. (2013, July). An Asia-Pacific free media paradigm: Challenging a parochial news ethos in Aotearoa. Presented at the Asian Media Information and Communication Centre 22nd International Conference. Yogyakarta, Indonesia.
Conference contribution - Oral Presentation	Robie, D. (2013, December). Pacific Media Watch and protest in Oceania: A case study of a campus-based free media collective [Plenary]. Presented at the Protest and the media. London, United Kingdom.
Conference contribution - Oral Presentation	Robie, D. (2013, May). 'Four Worlds' news values revisited : A deliberative journalism paradigm for Pacific media. Presented at the Media and Democracy in the South Pacific. Suva, Fiji.
Journal article	Robie, D. (2013). Conflict reporting in the South Pacific: A critical reflexive approach to Timor-Leste and West Papua. <i>Media Asia</i> , 40(2), 147-161.
Journal article	Robie, D. (2013). Coups, conflicts and human rights: Pacific media paradigms and challenges. <i>Asia Pacific Media Educator</i> , 22(2), 217-229. doi:10.1177/1326365X13498168
Journal article	Robie, D. (2013). The talanoa and the tribal paradigm: Reflections on cross-cultural reporting in the Pacific. <i>Australian Journalism Review</i> , 35(1), 43-58.
Journal article	Robie, D. (2013). 'Four Worlds' news values revisited : A deliberative journalism paradigm for Pacific media. <i>Pacific Journalism Review</i> , 19(1), 84-110.
Oral Presentation	Robie, D. (2013, October). Foreign reporting challenges in the South Pacific: Advocacy, activist groups and civil society. Presented at the Danish School of Media and Journalism, Aarhus, Denmark.
Oral Presentation	Robie, D. (2013, October). Climate change, conflict and global news: Critical media issues facing Pacific micro states. Presented at the Stockholm University, Institute of Media Studies, Stockholm, Sweden.
Oral Presentation	Robie, D. (2013, November). Relatoriu media nia liberdade iha Azia Pasifiku liga ho Timor-Leste. Presented at the La'o Hamutuk - Timor-Leste Institute of Development Research and Analysis, Dili, Timor-Leste.
Oral Presentation	Robie, D. (2013, October). Foreign reporting challenges in the South Pacific: A Pacific Media Watch free press case study. Presented at the Stockholm University, Institute of Media Studies, Stockholm, Sweden.
Other form of output	Robie, D. T. (2013). East Timor's Independente champions genuine 'free press'. <i>Asia-Pacific Network : Cafe Pacific</i> .
Other form of output	Robie, D. T., & Robie, D. (2013). Read draft media law first, East Timor's print adviser tells critics. <i>Asia-Pacific Network : Cafe Pacific</i> .
Other form of output	Robie, D. T. (2013). Taking on the challenge of Timor-Leste's media in transition. <i>Asia-Pacific Network : Cafe Pacific</i> .
Other form of output	Robie, D. (2013). <i>Cafe Pacific : Media freedom and transparency</i> [Digital publication]. <i>Asia-Pacific Network</i> .
Rupar, Verica	
Publication type	Citation
Conference contribution - Oral Presentation	Rupar, V. (2013). Reporting ethnicity and religion in Europe [Plenary]. Presented at the Media and diversity' seminar. Hong Kong, China.



Conference contribution - Oral Presentation	Rupar, V. (2013). The revival of undercover reporting in Europe [Plenary]. Presented at the London Conference in Critical Thought. Royal Holloway University, UK.
Conference contribution - Oral Presentation	Rupar, V. (2013). Why journalism in Aotearoa – New Zealand must change. [Plenary]. Presented at the JEANZ Conference. WG, AUT, Auckland, New Zealand.
Journal article	Rupar, V. (2013). The International Television News Agencies by Chris Paterson. . Journalism: Theory, Practice and Criticism(14), 844-845.
Journal article	Rupar, V. (2013). A fresh take on journalism authority. Pacific Journalism Review. 243-245.
Journal article	Munshi, D., Kurian, P., Fraser, R., & Rupar, V. (2013). 'Shadow publics' in the news coverage of socio-political issues. Journalism: theory, practice and criticism. doi:10.1177/1464884912473393

### Sissons, Helen Alexandra

Publication type	Citation
Journal article	Mulrennan, D. L., Cochrane, T., Sissons, H., & Pamatatau, R. (2013). Journalism 2.0: Exploring the impact of Mobile and Social Media on Journalism Education. International Journal of Mobile and Blended Learning, 5(2), 22-38.
Journal article	Cochrane, T., Sissons, H. A., Mulrennan, D. & Pamatatau, R. (2013). Journalism 2.0: Exploring the impact of mobile and social media on journalism education. International Journal of Mobile and Blended Learning.

### Theunissen, Petronella Sophia

Publication type	Citation
Conference contribution - Oral Presentation	Theunissen, P. S. (2013). Afrikaner identity: Argument, discourse, and stigma. Presented at the The fourth biennial New Zealand Discourse Conference. Auckland, New Zealand.

### Treadwell, Gregory John

Publication type	Citation
Conference contribution - Oral Presentation	Treadwell, G. J. (2013, November). Structural pluralism and freedom of information in Aotearoa-NZ. Presented at the The Age of Mobile News or journalism that won't stand still - the annual conference of the Journalism Education Association of NZ. Auckland, NZ.
Journal article	Lee, A., & Treadwell, G. (2013). Online news style-poking a hornet's nest: A preliminary investigation into online styles in Australian and New Zealand newspapers. Pacific Journalism Review, 19(1), 264-281.

### White, Paul

Publication type	Citation
Conference contribution - Abstract	White, P. (2013). Multimodality and space exploration: Communicative space in action. [Abstract]. In NZDC NEW ZEALAND DISCOURSE CONFERENCE ABSTRACTS, (pp.75-75). Institute of Discourse, Culture and Communication, Auckland University of Technology.
Other form of output	White, P. (2013). Two poems: The First Monday & The Book Lover [Journal].

## D - Research Outputs

- School of Computer and Mathematical Sciences
- Institute for Radio Astronomy and Space Research (IRASR)
- Knowledge Engineering and Discovery Research Institute (KEDRI)

### School of Computer and Mathematical Sciences

#### Bai, Quan

Publication Type	Citation
Conference contribution - Paper in published proceedings	Xiang, M., Liu, W., & Bai, Q. (2013). TIGER: A Trust-based Intelligent Geographical Energy-aware Routing for Smart Grid Communication Networks. In Proceedings of 12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, (6 pages). Melbourne, Australia. doi: 10.1109/TrustCom.2013.12
Conference contribution - Paper in published proceedings	Xiang, M., Liu, W., & Bai, Q. (2013). Trust-based geographical routing for smart grid communication networks. In Proceedings of third IEEE International Conference on Smart Grid Communications (SmartGridComm 2012), (pp.704-709). Tainan City, Taiwan.
Conference contribution - Paper in published proceedings	Xiang, M., Bai, Q., & Liu, W. (2013). Self-adjustable trust-based energy efficient routing for smart grid systems. In Proceedings of 2012 IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology Workshop on Green Computing and Sustainable Society, 3, (pp.378-382). Macau, China.
Journal article	Zhang, M., Kang, B., & Bai, Q. (2013). Discover and visualize association rules from sensor observations on the web. The Journal of Supercomputing, 65(1), 4-15.
Journal article	Su, X., Zhang, M., Mu, Y., & Bai, Q. (2013). A Robust Trust Model for Service Oriented Systems. Journal of Computer and System Sciences.

#### Blundell, Barry George

Publication Type	Citation
Conference contribution - Oral Presentation	Blundell, B. G. (2013, September). First year student course experience: overcoming the obstacles to student engagement. Presented at the Learning and Teaching Forum: "Engaging the student voice in learning and teaching". Auckland, NZ.
Conference contribution - Paper in published proceedings	Blundell, B. G., & Lu, L. W. (2013). Ethical and professional issues: transcending the obstacles to student engagement. In J. Uhomoihi, S. Barikzai, M. Ross, & G. Staples (Eds.),INSPIRE 2013 "Education Inspires", (pp.119-130). Southampton Solent University.
Journal article	Blundell, B. G. (2013). Reflections on Stanford's MOOCs. Computing Reviews. Retrieved from: <a href="http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687">http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687</a>
Journal article	Blundell, B. G. (2013). Microprocessor based systems design teaching platform for undergraduate students in computer engineering. Computing Reviews. Retrieved from: <a href="http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687">http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687</a>
Journal article	Blundell, B. G. (2013). Lost in space? Cognitive fit and cognitive load in 3D virtual environments. Computing Reviews. Retrieved from: <a href="http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687">http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687</a>
Journal article	Blundell, B. G. (2013). Hybrid basketry: interweaving digital practice within contemporary craft. Computing Reviews. Retrieved from: <a href="http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687">http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687</a>
Journal article	Blundell, B. G. (2013). Practical 3D printers: the science and art of 3D printing. Computing Reviews. Retrieved from: <a href="http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687">http://www.computingreviews.com/index_dynamic.cfm?CFID=8520856&amp;CFTOKEN=25629687</a>
Journal article	Blundell, B. G. (2013). On Aspects of Glasses-Free 3D Cinema 70 Years Ago. 3rd Dimension, 8(6), 60-67.

Journal article	Blundell, B. G. (2013). On Aspects of Glasses-Free 3D Cinema 70 Years Ago. 3rd Dimension, 8(5), 58-66.
Journal article	Blundell, B. G. (2013). On Aspects of Glasses-Free 3D Cinema 70 Years Ago. 3rd Dimension, 8(4), 52-71.
Journal article	Blundell, B. G. (2013). 3D Technology. ITNOW, 55(3), 42-43. doi:10.1093/itnow/bwt052
Other form of output	Blundell, B. G. (2013). A shorter journey. In M. Durrani (Ed.), Physics World, 23-23. UK: Institute of Physics Publishing.

### Cao, Jiling

Publication Type	Citation
Commissioned report for external body	Huang, B., Cao, J., & Chung, H. (2013). Strategic real options with stochastic volatility in a duopoly model (Report No. MPRA Paper No. 45731). Munich Personal RePEc Archive: Munich University.
Conference contribution - Oral Presentation	Cao, J. (2013, September). Bornologies, topological games and function spaces. Presented at the International Conference on Topology and Geometry 2013. Shimane University, Japan.
Conference contribution - Oral Presentation	Cao, J. (2013, July). Aggregate preferred correspondence and the existence of a maximin REE. Presented at the 13th SAET Conference on Current Trends in Economics. MINES Paris Tech, France.
Conference contribution - Oral Presentation	Cao, J. (2013, July). Three open problems on Wijsman topology [Keynote]. Presented at the The 16th Galway Topology Colloquium. National University of Ireland, Galway, Ireland.
Journal article	Cao, J., & Mohamad, A. (2013). Metrizable, manifolds and hyperspace topologies. JP Journal of Geometry and Topology, 14(1), 1-12.
Journal article	Bhowmik, A., & Cao, J. (2013). On the core and Walrasian expectations equilibrium in infinite dimensional commodity spaces. Economic Theory, 53(3), 537-560. doi:10.1007/s00199-012-0703-5
Journal article	Bhowmik, A., & Cao, J. (2013). Robust efficiency in mixed economies with asymmetric information. Journal of Mathematical Economics, 49(1), 49-57. doi:10.1016/j.jmateco.2012.09.007
Journal article	Zhao, H., Rong, X., & Cao, J. (2013). Optimal investment with multiple risky assets for an insurer in an incomplete market. Discrete Dynamics in Nature and Society, 2013.
Oral Presentation	Cao, J. (2013, March). Measurable selections and MREE. Presented at the Shimane University, Shimane University, Japan.
Oral Presentation	Cao, J. (2013, March). Embedding topological spaces in "nice" Wijsman hyperspaces. Presented at the Kyoto Institute of Technology, Kyoto Institute of Technology, New Zealand.
Oral Presentation	Cao, J. (2013, March). Maximin rational expectation equilibrium. Presented at the The University of Auckland, The University of Auckland, New Zealand.
Oral Presentation	Cao, J. (2013, February). Aggregate preferred correspondence and the existence of a maximin MREE. Presented at the The University of Queensland, The University of Queensland, Australia.

### Carter, Philip Desmond

Publication Type	Citation
Conference contribution - Paper in published proceedings	David Kaufmann, David Parry, Victoria Carlsen, Philip Carter, Emma Parry, Lucy Westbrook, (2013). Opportunistically discovering usability requirements for a clinical handover system. In C. U. Lehmann, E. Ammenwerth, & C. Nöhr (Eds.), Studies in Health Technology and Informatics, Volume 192: MEDINFO 2013, (pp.157-161). Denmark.
Journal article	Carter, P. D. (2013). There is a time for everything. The Australian and Aotearoa New Zealand Psychodrama Association Journal, 22, 15-17.
Journal article	Carter, P. D. (2013). From Kingdom to Community: Lessons from The Crucible. Psychotherapy and Politics International. doi:10.1002/ppi.1306

### Hyuck, Chung

Publication Type	Citation
Conference contribution - Abstract	Chung, H. (2013). Vibration transmission in a double-leaf plate with random rigidities and junctions [Abstract]. In Proceedings of Acoustics 2013 -- Victor Harbor. Victor Harbor, Adelaide, Australia.
Conference contribution - Paper in published proceedings	Chung, H. (2013). Computation of the transmission loss factor of single and double plates with random inhomogeneities. In Proceedings of the 20th International Congress on Sound and Vibration. Bangkok Thailand.
Conference contribution - Paper in published proceedings	Chung, H. (2013). Distribution of vibrations of a double-leaf plate with random inhomogeneities. In Proceedings of the 11th International Conference on Recent Advances in Structural Dynamics. Pisa Italy.
Journal article	Chung, H. (2013). Mid-frequency vibrations of a double-leaf plate with random inhomogeneities. J Acoust Soc Am, 133(5), 3563. doi:10.1121/1.4806498

### Clear, Anthony George

Publication Type	Citation
Chapter or section in books	Raza, B., MacDonell, S. G., & Clear, T. (2013). Research in Global Software Engineering: A Systematic Snapshot. In J. Filipe, & L. Maciaszek (Eds.), Evaluation of Novel Approaches to Software Engineering (pp.126-140). Springer.
Conference contribution - Abstract	Clear, T. (2013). Novopay: Dilemmas in a Nearshore Outsourcing Project Failure [Invited presentation] [Abstract]. In M. Lopez, & M. Verhaart (Eds.), 4th Annual Conference of Computing and Information Technology Research and Education (CITRENZ2013), (pp.142-142). CITRENZ.
Conference contribution - Paper in published proceedings	Sanders, K., Ahmadzadeh, M., Clear, T., Edwards, S. H., Goldweber, M., Johnson, C., ... Spacco, J. (2013). The Canterbury QuestionBank: Building a Repository of Multiple-Choice CS1 and CS2 Questions. In I. Utting, & A. Clear (Eds.), Proceedings of the ITiCSE working group reports conference on Innovation and technology in computer science education-working group reports (ITiCSE -WGR '13), (pp.33-51). ACM. doi: 10.1145/2543882.2543885
Conference contribution - Paper in published proceedings	Clear, A., & Clear, T. (2013). PBRF 2012 Outcomes: A CITRENZ perspective. In M. Lopez, & M. Verhaart (Eds.), Proceedings of the 4th Annual Conference of Computing and Information Technology Research and Education (CITRENZ2013), (pp.106-108). CITRENZ.
Conference contribution - Paper in published proceedings	Clear, T., Raza, B., & MacDonell, S. G. (2013). A Critical Evaluation of Failure in a Nearshore Outsourcing Project What dilemma analysis can tell us. In M. Cataldo, & J. Münch (Eds.), Proceedings of the 8th IEEE International Conference on Global Software Engineering (ICGSE), 2013, (pp.178-187). IEEE.
Conference contribution - Paper in published proceedings	Raza, B., MacDonell, S. G., & Clear, T. (2013). Topics and Treatments in Global Software Engineering Research - A Systematic Snapshot. In L. Maciaszek (Ed.), Proceedings of the 8th International Conference on Evaluation of Novel Approaches to Software Engineering (ENASE2013), (pp.85-96). SCITEPRESS - Science and Technology Publications.
Conference contribution - Paper in published proceedings	Tong, M. J., & Clear, T. (2013). A Reflection on the First Run of the Runestone Project at Tongji University: Observations on Cross Cultural Distributed Teams vs Face to Face Teams. In A. Pears (Ed.), Proceedings 2013 Learning and Teaching in Computing and Engineering (LaTICE 2013), (pp.148-153). IEEE.
Conference contribution - Paper in published proceedings	Sheard, J., Simon, Carbone, A., Chinn, D., Clear, T., Corney, M., ... Teague, D. (2013). How difficult are exams? A framework for assessing the complexity of introductory programming exams. In A. Carbone, & J. Whalley (Eds.), Proceedings of the Fifteenth Australasian Computing Education Research Conference (ACE 2013), 136, (pp.145-154). ACS.
Journal article	Clear, T. (2013). 'Social' or 'Anti-Social' Software: Content Production in Web 2.0 - Who Benefits? ACM Inroads, 4(4), 12-13. doi:10.1145/2537753.2537757
Journal article	Clear, T. (2013). Doctoral Work in Computing Education Research: Beyond Experimental Designs. ACM Inroads, 4(2), 28-30. doi:10.1145/2465085.2465092
Journal article	Goldweber, M., Barr, J., Clear, T., Davoli, R., Mann, S., Patitsas, E., ... Portnoff, S. (2013). A framework for enhancing the social good in computing education: a values approach. SIGCSE Bulletin Inroads, 4(1), 58. doi:10.1145/2432596.2432616



Other form of output	Clear, T., Raza, B., & MacDonell, S. G. (2013). The Novopay Project: The Dilemmas in Global Software Outsourcing. Institute of IT Professionals NZ Inc.
Other form of output	Clear, T. (2013). Cheating scandal just the tip of the scholastic iceberg [Sunday Star Times Contributed Newspaper Article]. In M. Donaldson (Ed.), Sunday Star Times, A11-A11. Wellington.
<b>Cowpertwait, Paul</b>	
Publication Type	Citation
Journal article	Cowpertwait, P., Ocio, D., Collazos, G., de Cos, O., & Stocker, C. (2013). Regionalised spatiotemporal rainfall and temperature models for flood studies in the Basque Country, Spain. <i>Hydrology and Earth System Sciences</i> , 17, 479-494. doi:10.5194/hess-17-479-2013
<b>Cusack, Brian</b>	
Publication Type	Citation
Conference contribution - Oral Presentation	Cusack, B., & Clark, G. (2013, July). International Security & Digital Forensic Standards Development. Presented at the 2013 Digital Forensic International Conference.
Conference contribution - Other	Cusack, B. (2013, December). What is information Security Management: Towards a Taxonomy of Practices. Paper presented at the 11th Australian Digital Forensics Conference.
Conference contribution - Paper in published proceedings	Baloch, F., & Cusack, B. (2013). On Where the Internet Is. In 19th Americas Conference on Information Systems.
Conference contribution - Paper in published proceedings	Cusack, B., & Baloch, F. (2013). Implications of Internet Governance Issues for End Users. In 17th UK Association of Information Systems Conference.
Conference contribution - Paper in published proceedings	Cusack, B., Woodward, A., Butson, S., & Leber, B. (2013). The Effectiveness of Internet Activity Erasure Tools to Protect Privacy. In 11th Australian Information Security Management Conference.
Conference contribution - Paper in published proceedings	Cusack, B. (2013). Acquisition of Evidence from Network Intrusion Detection Systems. In 11th Australian Digital Forensics Conference.
Conference contribution - Paper in published proceedings	Cusack, B., & Chee, A. (2013). Steganographic Checks in Digital Forensic Investigation.
Conference contribution - Paper in published proceedings	Cusack, B., & Lutui, R. (2013). Including Network Routers in Forensic Investigations. In 11th Australian Digital Forensics Conference.
Conference contribution - Paper in published proceedings	Cusack, B., & Homewood, (2013). Identifying Bugs in Digital Forensic Tools. n 11th Australian Digital Forensics Conference.
Journal article	Cusack, B., & Alqahtani, A. (2013). Fuzzing Risks for Rich HTML Applications. <i>The Digital Forensics Magazine</i> . (14), 3841.
Journal article	Cusack, B., & Homewood, A. (2013). Fuzzing Risks in Software Tools. <i>The Digital Forensics Magazine</i> . (15), 30-35.
Journal article	Cusack, B., & Chee, A. (2013). Social Networking Steganography Opportunities. <i>Digital Forensic Magazine</i> . (16), 28-32.
Journal article	Cusack, B., & Woodward, A. (2013). Erasure Tool Performance can Beat the best intentions. <i>The Digital Forensic Magazine</i> . (17), 58-61.
Journal article	Cusack, B., & Alqahtani, A. (2013). Using Network Intrusion Detection Tools to Acquire Evidence. <i>Digital Forensic Magazine</i> . (17), 44-48.
Journal article	Clarke, G., & Cusack, B. (2013). International Standards help Businesses & Government manage Information Systems Security incidents. <i>Touchstone</i> . (53), 10-11.

<b>Ensor, Andrew</b>	
Publication Type	Citation
Commissioned report for external body	Ensor, A., Carlson, B., Kapp, F., Stevens, D., Halsall, R., Comoretto, G., ... Wu, M. (2013). Feasibility White Paper SKA Central Signal Processor 1.3.2.2 SKA.TEL.CSP.CBF-STG1.MID.PIP (Report No. 1.3.2.2 SKA.TEL.CSP.CBF-STG1.MID.PIP). [Commissioned by NRC Canada]. SKA Organization.
Commissioned report for external body	Zarb-Adami, K., Bunton, J., Carlson, B., Comoretto, G., D'Addario, L., Ensor, A., ... Szomoru, A. (2013). SKA1-LOW Hybrid PIP. [Commissioned by NRC Canada]. SKA Organization.
Commissioned report for external body	Ensor, A., Bunton, J., Carlson, B., Chan, T. N., Comoretto, G., D'Addario, L., ... Zarb-Adami, K. (2013). SKA1-Survey Physical Implementation Proposal Feasibility White Paper (Report No. WhitePaper_CBF-STG1.SUR.PIP_Ensor_2013_05_03). [Commissioned by NRC Canada]. SKA Organization.
Conference contribution - Paper in published proceedings	Ensor, A., & Hall, S. (2013). ColourFAST: GPU-based feature point detection and tracking on mobile devices. In <i>Image and Vision Computing New Zealand (IVCNZ), 2013 28th International Conference of</i> , (pp.124-129). Wellington, New Zealand. doi: 10.1109/IVCNZ.2013.6727003
Journal article	Mahmoud, M. S., Ensor, A., Biem, A., Elmegreen, B., & Gulyaev, S. (2013). Data provenance and management in radio astronomy: A stream computing approach. <i>Studies in Computational Intelligence</i> , 426, 129-156.
<b>Fong, Alvis Cheuk Ming</b>	
Publication Type	Citation
Conference contribution - Paper in published proceedings	Tang, J., & Fong, A. C. M. (2013). Sentiment diffusion in large scale social networks. In <i>IEEE International Conference on Consumer Electronics (ICCE2013)</i> . Las Vegas, NV, USA. doi: 10.1109/ICCE.2013.6486878
Conference contribution - Paper in published proceedings	Anderson, S., Fong, A. C. M., & Tang, J. (2013). Tri-modal speech recognition for noisy and variable lighting conditions. In <i>IEEE International Conference on Consumer Electronics (ICCE2013)</i> . Las Vegas, NV, USA. doi: 10.1109/ICCE.2013.6486800
Journal article	Usman, M., Pears, R., & Fong, A. C. M. (2013). A data mining approach to knowledge discovery from multidimensional cube structures. <i>Knowledge-Based Systems</i> , 40, 36-49. doi:10.1016/j.knosys.2012.11.008
Journal article	Nguyen, M. L., Hui, S. C., & Fong, A. C. M. (2013). Large-scale multi-objective static test generation for Web-based testing with integer programming. <i>IEEE Transactions on Learning Technologies</i> . 15 pages.
<b>Gutierrez, Jairo</b>	
Publication Type	Citation
Conference contribution - Oral Presentation	Rakjit, C., Liu, W., & Gutierrez, J. (2013, April). A Greener Cloud-based Scheduling Algorithm for Improving the Energy Efficiency of Mobile Devices. Presented at the 12th New Zealand Computer Science Research Student Conference (NZCSRSC). Hamilton, New Zealand.
Conference contribution - Oral Presentation	Alhaddadin, F., Liu, W., & Gutierrez, J. (2013, May). A Policy Based Management Approach for Greening the Cloud Infrastructure. Presented at the The 12th New Zealand Computer Science Research Student Conference (NZCSRSC). Hamilton, New Zealand.
Conference contribution - Oral Presentation	Castellon, Y., & Gutierrez, J. (2013, December). Organizational Knowledge Management Framework: The COMFENALCO Case. Presented at the 24th Australasian Conference on Information Systems. Melbourne.
Conference contribution - Paper in published proceedings	Rakjit, C., Liu, W., & Gutierrez, J. (2013). EESManager: Making Greener Cloud Apps. In <i>Proceedings of Australasian Telecommunication Networks and Applications Conference (ATNAC 2013)</i> , (6 pages). Christchurch, New Zealand. doi: 10.1109/SSEEGN.2013.6705399
<b>Hitchcock, Leo</b>	
Publication Type	Citation
Conference contribution - Oral Presentation	Thorpe, S. J., Ru-Ross, A., & Hitchcock, L. (2013, October). Learning and teaching strategies in an intercultural context: Offshore programme in Vietnam. Presented at the Second Forum on International Collaborative Academic Programs. Hangzhou, China.

Hossain, Zulfikar	
Publication Type	Citation
Journal article	Hossain, M. Z., & Yeap, W. (2013). How Albot1 Computes its Topological-metric Map. <i>Procedia - Social and Behavioral Sciences</i> , 97(0), 553-560. doi:10.1016/j.sbspro.2013.10.272
Hunt, Douglas PL	
Publication Type	Citation
Conference contribution - Paper in published proceedings	Schliebs, S., Kasabov, N., Parry, D., & Hunt, D. (2013). Towards a Wearable Coach: Classifying Sports Activities with Reservoir Computing. In L. Iliadis, H. Papadopoulos, & C. Jayne (Eds.), <i>Engineering Applications of Neural Networks</i> , 383, (pp.233-242). Springer-Verlag.
Hunter, Jeffrey Joseph	
Publication Type	Citation
Conference contribution - Oral Presentation	Hunter, J. J., & Henderson, H. (2013, November). Memorial Session to Honour Professor Shayle Searle [Plenary]. Presented at the 2013 Joint NZSA + ORSNZ Conference. Hamilton, New Zealand.
Conference contribution - Oral Presentation	Hunter, J. J. (2013, November). The efficient computation of the group inverse and the mean first passage times in a Markov chain [Keynote]. Presented at the 2013 Joint NZSA + ORSNZ Conference. Hamilton, New Zealand.
Conference contribution - Oral Presentation	Hunter, J. J. (2013, August). Memorial Session to Honor Shayle R. Searle [Plenary]. Presented at the 22nd International Workshop on Matrices and Statistics. Toronto, Ontario, Canada.
Conference contribution - Oral Presentation	Hunter, J. J. (2013, August). Generalized inverses of Markovian kernels in terms of properties of the Markov chain [Keynote]. Presented at the 22nd International Workshop on Matrices and Statistics. Toronto, Ontario, Canada.
Conference contribution - Oral Presentation	Hunter, J. J. (2013, July). The Role of Generalized Inverses in Markov Chains. Presented at the 3rd Australia and New Zealand Applied Probability Workshop. University of Queensland, Brisbane, Queensland, Australia.
Conference contribution - Oral Presentation	Hunter, J. J. (2013, July). The Role of Generalized Inverses in Markov Chains [Plenary]. Presented at the Preconditioning of Iterative Methods, Theory and Applications, A conference in Honor of Ivo Marek. Czech Technical University, Prague, Czech Republic.
Journal article	Hunter, J. J. (2013). Generalized inverses of Markovian kernels in terms of properties of the Markov chain. <i>Linear Algebra and Its Applications</i> , In Press, Corrected copy online. doi:10.1016/j.laa.2013.08.037
Journal article	Hunter, J. J. (2013). The Role of Kemeny's Constant in Properties of Markov Chains. <i>Communications in Statistics - Theory and Methods</i> , 42(Special Issue: MSMPRF 2011, Markov and semi-Markov Processes and Related Fields).
Oral Presentation	Hunter, J. J. (2013, September). The role of Kemeny's constant in the properties of Markov chains. Presented at the Department of Applied Mathematics, China Jiliang University, Hangzhou, China.
Oral Presentation	Hunter, J. J. (2013, September). The Role of Generalized Inverses in Markov Chains. Presented at the Faculty of Mathematics and Computer Science, Ho Chi Minh University of Science, Vietnam National University, Ho Chi Minh, Vietnam.
Imran, Noreen	
Publication Type	Citation
Journal article	Imran, N., Seet, B. -C., & Fong, A. (2013). A Semi-Oblivious Energy-Aware Adaptive Watermarking for Wireless Image Sensor Networks. <i>Multimedia Systems</i> , (published online: 16 May 2013), 16 pages. doi:10.1007/s00530-013-0320-6
Kachapova, Farida	
Publication Type	Citation
Authoried Book	Kachapova, F. (2013). <i>Mathematical models in portfolio analysis</i> . Bookboon.com (Ventus Publishing ApS).

Chapter or section in books	Kachapova, F. (2013). A generalization of Beth model to functionals of high types. (pp.185-209). World Scientific.
Conference contribution - Abstract	Kachapova, F. (2013). A Beth model with infinitely many types of functionals [Abstract]. In The 13th Asian Logic conference, (pp.18). Guangzhou, China.
Conference contribution - Oral Presentation	Kachapova, F. (2013, January). Monotonicity criteria. Presented at the International conference on probability and statistics. Dubai.
Conference contribution - Paper in published proceedings	Kachapova, F., & Kachapov, I. (2013). Monotonicity criteria. In <i>World Academy of Science, Engineering and Technology</i> (73), (pp.1594-1599). Dubai.
Journal article	Kachapova, F. (2013). Representing Markov chains with transition diagrams. <i>Journal of Mathematics and Statistics</i> , 9(3), 149-154. doi:10.3844/jmssp.2013.149.154
Oral Presentation	Kachapova, F. (2013, October). Intuitionistic multi-typed theory. Presented at the Auckland University of Technology, Auckland, New Zealand.
Kasto, Nadia	
Publication Type	Citation
Conference contribution - Paper in published proceedings	Kasto, N., & Whalley, J. L. (2013). Measuring the difficulty of code comprehension tasks using software metrics. In A. Carbone, & J. L. Whalley (Eds.), <i>15th Australasian Computer Education Conference (ACE 2013)</i> , 136, (pp.57-63). ACS.
Conference contribution - Paper in published proceedings	Whalley, J. L., & Kasto, N. (2013). Revisiting models of human conceptualisation in the context of a programming examination. In A. Carbone, & J. L. Whalley (Eds.), <i>15th Australasian Computer Education Conference (ACE 2013)</i> , 136, (pp.64-73). Australian Computer Society.
Klette, Gisela	
Publication Type	Citation
Conference contribution - Paper in published proceedings	Li, F., Fu, X., Klette, G., & Klette, R. (2013). A Fast Algorithm for Liver Surgery Planning. In R. Gonzalez Diaz, M. J. Jimenez, & B. G. Medrano (Eds.), <i>Springer, Lecture Notes in Computer Science, LNCS7749</i> , (pp.228-240). Springer.
Klymchuk, Sergiy	
Publication Type	Citation
Authoried Book	Ivanov, O., & Klymchuk, S. (2013). <i>Mathematical analysis for first-year students</i> . Moscow, Russia: Moscow Centre for Continuing Education in Mathematics.
Authoried Book	Klymchuk, S., & Staples, S. (2013). <i>Paradoxes and Sophisms in Calculus</i> . USA: Mathematical Association of America.
Conference contribution - Oral Presentation	Klymchuk, S. (2013, April). Algebra or language or both – students' difficulties in solving application problems [Plenary]. Presented at the Auckland Mathematical Association conference "Connecting our students with algebra". Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Klymchuk, S., & Zverkova, T. (2013). The role of attention in the praxis of knowledge of school mathematics teachers. In <i>Online proceedings of the 2nd Mathematics Education and Contemporary Theories conference (MECT-2)</i> , (8 pages). Manchester, UK.
Conference contribution - Paper in published proceedings	Klymchuk, S., & Cheng, C. (2013). The impact of attention on assessment. In <i>Proceedings of the 6th East Asia Regional Conference on Mathematics Education (EARCOME-6)</i> , 2, (pp.354-362). Phuket, Thailand.
Journal article	Klymchuk, S., & Cheng, C. C. (2013). The role of attention in assessment. <i>Mathematics Teaching Research Journal Online</i> , 6(3), 36-47.
Oral Presentation	Klymchuk, S. (2013, June). Different contexts in teaching mathematical modelling and applications to engineering students: students' attitudes and difficulties. Presented at the Mathematics Education Centre at the University of Nottingham, Nottingham, UK.
Oral Presentation	Klymchuk, S. (2013, June). Counterexamples in calculus as a pedagogical strategy. Presented at the Department of Mathematics at the University of Manchester, Manchester, UK, Department of Mathematics at the University of Manchester, Manchester, UK.



Oral Presentation	Klymchuk, S. (2013, June). Influence of attention on mathematical knowledge and assessment. Presented at the Department of Mathematics and Mathematics Education of the National Institute of Education at the Nanyang University, Singapore, Department of Mathematics and Mathematics Education of the National Institute of Education at the Nanyang University, Singapore.
Oral Presentation	Klymchuk, S. (2013, October). Attention and mathematical knowledge. Presented at the Department of the Didactics of Mathematics of the South-Ukrainian National Pedagogical University, Odessa, Ukraine, Department of the Didactics of Mathematics of the South-Ukrainian National Pedagogical University, Odessa, Ukraine.
Oral Presentation	Klymchuk, S. (2013, November). Influence of attention on mathematical knowledge and assessment. Presented at the Frege International Centre for Engineering Education at Wismar University, Germany.
Oral Presentation	Klymchuk, S. (2013, May). Influence of attention on mathematical knowledge and assessment. Presented at the School of Computing and Mathematical Sciences of Auckland University of Technology, New Zealand.

### Lee, Jeong (Kate)

Publication Type	Citation
Conference contribution - Oral Presentation	Lee, J., Sisson, S., & Fan, Y. (2013, November). Bayesian threshold selection for extremal models using measures of surprise. Presented at the NZSA + ORSNZ, 2013. Hamilton.
Conference contribution - Other	Lee, J., Fox, C., & Nicholls, G. (2013, January). Bayesian inference for inverse obstacle scattering problems. Paper presented at the Southern Uncertainty Quantification 2013 (SUQ'13). Dunedin, NZ.
Journal article	Lee, J., & Robert, C. P. (2013). Importance sampling schemes for evidence approximation in mixture models. arXiv.
Journal article	Lee, J., Fan, Y., & Sisson, S. (2013). Bayesian threshold selection for extremal models using measures of surprise. arXiv.

### Licorish, Sherlock Anthony

Publication Type	Citation
Conference contribution - Paper in published proceedings	Licorish, S. A., & MacDonell, S. G. (2013). Adopting softer approaches in the study of repository data: a comparative analysis. In F. Q. B. D. Silva, N. J. Juzgado, & G. H. Travassos (Eds.), EASE, (pp.240-245). ACM.
Conference contribution - Paper in published proceedings	Licorish, S. A., & MacDonell, S. G. (2013). The true role of active communicators: an empirical study of Jazz core developers. In F. Q. B. D. Silva, N. J. Juzgado, & G. H. Travassos (Eds.), EASE, (pp.228-239). ACM.

### Liu, Jiamou

Publication Type	Citation
Journal article	Huschenbett, M., & Liu, J. (2013). A polychromatic ramsey theory for ordinals. Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8087 LNCS, 559-570. doi:10.1007/978-3-642-40313-2_50
Journal article	Liu, J., Kuske, D., & Lohrey, M. (2013). The isomorphism problem for $\Pi$ -automatic trees. Annals of Pure and Applied Logic, 164(1), 30-48. doi:10.1016/j.apal.2012.09.001

### Liu, Zhiyong (William)

Publication Type	Citation
Chapter or section in books	Foye, E., Prasad, S., Sivan, S., Faatamai, S., Yan, W. Q., & Liu, W. (2013). A Framework of Content and Context Based Network Monitoring. Managing Trust in Cyberspace (pp.371-388). Taylor & Francis Group.
Conference contribution - Oral Presentation	Liu, W. (2013, March). Architecturing the SmartGrid for energy efficiency and service resiliency: A BlueGreen Framework. Presented at the The Energy Conference 2013. Wellington, New Zealand.

Conference contribution - Oral Presentation	Tauch, S., Liu, W., & Pears, R. (2013, May). Cascade Effects in Coupled Networks. Presented at the The 12th New Zealand Computer Science Research Student Conference (NZCSRSC). Hamilton, New Zealand.
Conference contribution - Oral Presentation	Alhaddadin, F., Liu, W., & Gutierrez, J. (2013, May). A Policy Based Management Approach for Greening the Cloud Infrastructure. Presented at the The 12th New Zealand Computer Science Research Student Conference (NZCSRSC). Hamilton, New Zealand.
Conference contribution - Oral Presentation	Rakjit, C., Liu, W., & Gutierrez, J. (2013, April). A Greener Cloud-based Scheduling Algorithm for Improving the Energy Efficiency of Mobile Devices. Presented at the 12th New Zealand Computer Science Research Student Conference (NZCSRSC). Hamilton, New Zealand.
Conference contribution - Paper in published proceedings	Yang, M. L., Al-Anbuky, A., & Liu, W. (2013). The Multiple-Key Blom's Scheme for Key Establishment in Mobile Ad Hoc Sensor Networks. In Proceedings of 19th Asia-Pacific Conference on Communications (APCC 2013), (pp.423-427). IEEE Xplore.
Conference contribution - Paper in published proceedings	Tauch, S., Liu, W., & Pears, R. (2013). Cascade Effects of Load Shedding in Coupled Networks. In Proceedings of the 19th IEEE International Conference on Networks (ICON 2013), (6 pages). Singapore.
Conference contribution - Paper in published proceedings	Ray, S. K., Liu, W., Sirisena, H., Ray, S., & Deka, D. (2013). An Energy Aware Mobile-Controlled Handover Method for Natural Disaster Situations. In Proceedings of Australasian Telecommunication Networks and Applications Conference (ATNAC 2013), (6 pages). Christchurch, New Zealand. doi: 10.1109/ATNAC.2013.6705369
Conference contribution - Paper in published proceedings	Rakjit, C., Liu, W., & Gutierrez, J. (2013). EESManager: Making Greener Cloud Apps. In Proceedings of Australasian Telecommunication Networks and Applications Conference (ATNAC 2013), (6 pages). Christchurch, New Zealand. doi: 10.1109/SSEEGN.2013.6705399
Conference contribution - Paper in published proceedings	Luo, B., Liu, W., & Al-Anbuky, A. (2013). Energy Aware Survivable Routing Approaches for Next Generation Networks. In Proceedings of Australasian Telecommunication Networks and Applications Conference (ATNAC 2013), (pp.60-65). IEEE Xplore.
Conference contribution - Paper in published proceedings	Xiang, M., Liu, W., & Bai, Q. (2013). TIGER: A Trust-based Intelligent Geographical Energy-aware Routing for Smart Grid Communication Networks. In Proceedings of 12th IEEE International Conference on Trust, Security and Privacy in Computing and Communications, (6 pages). Melbourne, Australia. doi: 10.1109/TrustCom.2013.12
Conference contribution - Paper in published proceedings	Xiang, M., Bai, Q., & Liu, W. (2013). Self-adjustable trust-based energy efficient routing for smart grid systems. In Proceedings of 2012 IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology Workshop on Green Computing and Sustainable Society, 3, (pp.378-382). Macau, China.
Conference contribution - Paper in published proceedings	Xiang, M., Liu, W., & Bai, Q. (2013). Trust-based geographical routing for smart grid communication networks. In Proceedings of third IEEE International Conference on Smart Grid Communications (SmartGridComm 2012), (pp.704-709). Tainan City, Taiwan.

### MacDonell, Stephen Gerard

Publication Type	Citation
Conference contribution - Paper in published proceedings	Licorish, S. A., & MacDonell, S. G. (2013). Adopting softer approaches in the study of repository data: a comparative analysis. In F. Q. B. D. Silva, N. J. Juzgado, & G. H. Travassos (Eds.), EASE, (pp.240-245). ACM.
Conference contribution - Paper in published proceedings	Licorish, S. A., & MacDonell, S. G. (2013). The true role of active communicators: an empirical study of Jazz core developers. In F. Q. B. D. Silva, N. J. Juzgado, & G. H. Travassos (Eds.), EASE, (pp.228-239). ACM.
Conference contribution - Paper in published proceedings	Bosu, M. F., & MacDonell, S. G. (2013). Data quality in empirical software engineering: a targeted review. In F. Q. B. D. Silva, N. J. Juzgado, & G. H. Travassos (Eds.), EASE, (pp.171-176). ACM.

### Mahmoud, Mahmoud Sarmad

Publication Type	Citation
Journal article	Mahmoud, M. S., Ensor, A., Biem, A., Elmegreen, B., & Gulyaev, S. (2013). Data provenance and management in radio astronomy: A stream computing approach. Studies in Computational Intelligence, 426, 129-156.

## Marshall, Sarah

Publication Type	Citation
Conference contribution - Oral Presentation	Marshall, S. (2013, July). Managing the quality of returns in a product recovery system with uncertainty. Presented at the 26th European Conference on Operational Research: EURO26. Rome, Italy.

## Naeem, Muhammad Asif

Publication Type	Citation
Conference contribution - Paper in published proceedings	Naeem, M. A., Weber, G., Dobbie, G., & Lutteroth, C. (2013). A generic front-stage for semi-stream processing. In Q. He, A. Lyengar, W. Nejdl, J. Pei, & R. Rastogi (Eds.), ACM 22nd International Conference on Information and Knowledge Management, Proceedings, (pp.769-774). ACM.
Conference contribution - Paper in published proceedings	Naeem, M. A., Weber, G., Dobbie, G., & Lutteroth, C. (2013). SSCJ: A semi-stream cache join using a front-stage cache module. In L. Bellatreche, & M. K. Mohania (Eds.), Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 8057 LNCS, (pp.236-247). Springer Berlin Heidelberg.
Conference contribution - Paper in published proceedings	Naeem, M. A. (2013). Tuned X-HYBRIDJOIN for near-real-time data warehousing. In Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics), 7808 LNCS, (pp.494-505).
Journal article	Naeem, M. A., Dobbie, G., & Weber, G. (2013). Efficient processing of streaming updates with archived master data in near-real-time data warehousing. Knowledge and Information Systems. 1-23.

## Narayanan, Ajit

Publication Type	Citation
Conference contribution - Paper in published proceedings	Narayanan, A., & Liu, F. (2013). A Human-Inspired Collision Avoidance Method for Multi-robot and Mobile Autonomous Robots. In G. Boella, E. Elkind, B. T. R. Savarimuthu, F. Dignum, & M. K. Purvis (Eds.), PRIMA 2013: Principles and Practice of Multi-Agent Systems, 8291, (pp.181-196). Springer-Verlag.
Conference contribution - Paper in published proceedings	Narayanan, A., Apenteng, O., & Klymchuk, S. (2013). The Use of Cellular Automata for Modelling (SIR)N Diseases with Migratory Reinfection. In Proceedings of 2012 3rd International Conference on Computer and Computational Intelligence (ICCCI 2012), (5 pages). ASME Press.
Journal article	Narayanan, A., Greco, M., Powell, H., & Coleman, L. (2013). The reliability of big 'patient satisfaction' data. Big Data, 1(3), 141-151. doi:10.1089/big.2013.0021
Journal article	Narayanan, A., Chen, Y., Pang, S., & Tao, B. (2013). The effects of different representations on static structure analysis of computer malware signatures. ScientificWorldJournal, 2013, 671096. doi:10.1155/2013/671096
Journal article	Keedwell, E., & Narayanan, A. (2013). Gene expression rule discovery and multi-objective ROC analysis using a neural-genetic hybrid. International Journal of Data Mining and Bioinformatics, 7(4), 376-396.
Journal article	Narayanan, A. (2013). Society under threat... but not from AI. AI and Society, 28(1), 87-94. doi:10.1007/s00146-012-0401-7

## Parry, David

Publication Type	Citation
Conference contribution - Paper in published proceedings	Parry, D., Hunt, D., Schliebs, S., & Kasabov, N. (2013). Towards a Wearable Coach: Classifying Sports Activities with Reservoir Computing. In L. S. Iliadis, H., Papadopoulos, & C. Jayne (Eds.), Engineering Applications of Neural Networks 14th International Conference, EANN 2013, Halkidiki, Greece, September 2013, Proceedings, Part I Series: Communications in Computer and Information Science, Vol. 383 (pp.233-242). Springer.
Chapter or section in books	Parry, D. (2013). Health Informatics. In N. Kasabov (Ed.), Springer Handbook of Bio-/Neuroinformatics.
Conference contribution - Oral Presentation	Parry, D., Gill, A., & Cusack, B. (2013, November). Smartpage, a Novel Smartphone and Web-based Clinical Messaging System: A Pilot Trial at Waitemata DHB. Presented at the Health Informatics New Zealand.

Conference contribution - Oral Presentation	Parry, D., Zimin, V., Fernandes, J., Wang, A., Ticehurst, R., & Ogunyebi, J. (2013, November). A Lightweight Approach to Barcode Medication Administration. Presented at the Health Informatics New Zealand.
Conference contribution - Oral Presentation	Parry, D., Mickell, A., li, D., & Zhang, X. (2013, November). Community Pharmacy Owners and the NZHIT Plan. Presented at the Health Informatics New Zealand. New Zealand.
Conference contribution - Oral Presentation	Parry, D., & Houliston, B. (2013). Ultrawideband RFID for activity analysis in clinical environments. Presented at the Workshop on Smart Sensors Instrumentation and Measurement. Auckland.
Conference contribution - Paper in published proceedings	Son Minh Huynh, Aljuhara Alshubaily, Farsheed Manzoor Mir, Oleg Smirnov, Meetu Thomas, Ogunyebi, J. O., ... Fong, A. C. M. (2013). Pharmacy Drug Administration System. In P. Palensky, L. Gomes, & M. -Y. Chow (Eds.), 39th Annual Conference of the IEEE Industrial Electronics Society - IECON2013, (pp.8437-8442). IEEE. doi: 10.1109/IECON.2013.6700548
Conference contribution - Paper in published proceedings	David Kaufmann, David Parry, Victoria Carlsen, Philip Carter, Emma Parry, Lucy Westbrook, (2013). Opportunistically discovering usability requirements for a clinical handover system. In C. U. Lehmann, E. Ammenwerth, & C. Nöhr (Eds.), Studies in Health Technology and Informatics, Volume 192: MEDINFO 2013, (pp.157-161). Denmark.
Conference contribution - Paper in published proceedings	Parry, D., & MacRae, J. (2013). Fuzzy Ontologies for Cardiovascular risk prediction – a research approach. In FUZZ IEEE 2013, (pp.1-4). Hyderabad. doi: 10.1109/FUZZ-IEEE.2013.6622564
Journal article	Parry, D., Hunter, I., Honey, M., Holt, A., Day, K., Kirk, R., ... Cullen, R. (2013). Health informatics community priming in a small nation: the New Zealand experience. Stud Health Technol Inform, 192, 950.
Journal article	Parry, D., Hunter, I., Honey, M., Holt, A., Day, K., Kirk, R., ... Cullen, R. (2013). Building an educated health informatics workforce - The New Zealand experience. Stud Health Technol Inform, 188, 86-90.
Journal article	Parry, D., & Sampath, P. (2013). Trajectory Analysis using Automatic Identification Systems in New Zealand Waters. International Journal of Computer and Information Technology, 2(1), 132-136.

## Parry, Katharina

Publication Type	Citation
Journal article	Parry, K., & Hazelton, M. L. (2013). Bayesian inference for day-to-day dynamic traffic models. Transportation Research Part B: Methodological, 50, 104-115.

## Pears, Russel Lawrence

Publication Type	Citation
Conference contribution - Oral Presentation	Tauch, S., Liu, W., & Pears, R. (2013, May). Cascade Effects in Coupled Networks. Presented at the The 12th New Zealand Computer Science Research Student Conference (NZCSRSC). Hamilton, New Zealand.
Conference contribution - Paper in published proceedings	Tauch, S., Liu, W., & Pears, R. (2013). Cascade Effects of Load Shedding in Coupled Networks. In Proceedings of the 19th IEEE International Conference on Networks (ICON 2013), (6 pages). Singapore.
Conference contribution - Paper in published proceedings	Sakthithasan, S., Pears, R. L., & Koh, Y. S. (2013). One Pass Concept Change Detection for Data Streams. doi: 10.1007/978-3-642-37456-2_39
Journal article	Usman, M., Pears R., & Fong, A. (2013). Discovering diverse association rules from multidimensional schema. Expert Systems with Applications, 40(15), 5975-5996. doi:10.1016/j.eswa.2013.05.031
Journal article	Pears, R., Widiputra, H., & Kasabov, N. (2013). Evolving integrated multi-model framework for on line multiple time series prediction. Evolving Systems, 4(2), 99-117. doi:10.1007/s12530-012-9069-y
Journal article	Usman, M., Pears, R., & Fong, A. C. M. (2013). A data mining approach to knowledge discovery from multidimensional cube structures. Knowledge-Based Systems, 40, 36-49.



Journal article	Pears, R. L., Koh, Y., Dobbie, G., & Yeap, W. (2013). Weighted association rule mining via a graph based connectivity model. <i>International Journal of Computing and Information Sciences</i> , 218, 61-84.
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### Petrova, Krassimira Dragomirova

Publication Type	Citation
Conference contribution - Abstract	Petrova, K., & Cranford, D. (2013). International collaboration in the cloud: From Michigan to New Zealand [Abstract]. In P. Blessinger, & C. Wankel (Eds.), <i>Proceedings of the 1st International Higher Education Teaching &amp; Learning Conference</i> , (pp.125-125). Higher teaching and Learning Association (HETL).
Conference contribution - Paper in published proceedings	Petrova, K., & Cranford-Wesley, D. (2013). Virtual collaborative teaching: What value does it bring? In C. Frielick, N. Buissink, P. Wyse, J. Billot, J. Hallas, & E. Whitehead (Eds.), <i>Research and Development in Higher Education: The Place of Learning and Teaching</i> , 36, (pp.346-359). Higher Education Research and Development Society in Australasia (HERDSA).
Journal article	Petrova, K., & Wang, B. (2013). Retailer Adoption of Mobile Payment: A Qualitative Study. <i>Journal of Electronic Commerce in Organizations</i> , 11(4), 70-89, October-December 2013, 11(4), 70-89.

### Ruan, Ji

Publication Type	Citation
Conference contribution - Paper in published proceedings	Huang, X., Ruan, J., & Thielscher, M. (2013). Model Checking for Reasoning About Incomplete Information Games. In S. Cranefield, & A. Nayak (Eds.), <i>The 26th Australasian Joint Conference on Artificial Intelligence</i> , (pp.246-258). Springer.
Journal article	van Ditmarsch, H., van der Hoek, W., & Ruan, J. (2013). Connecting Temporal Epistemic and Dynamic Epistemic Logics. <i>The Logic Journal of the IGPL</i> , 21(3), 380-403. doi:10.1093/jigpal/jzr038

### Sallis, Philip

Publication Type	Citation
Conference contribution - Paper in published proceedings	Ghobakhlou, A., Kmoch, A., & Sallis, P. (2013). Integration of wireless sensor network and web services. In J. Piantadosi, R. S. Anderssen, & J. Boland (Eds.), <i>Adapting to Change: the multiple roles of modelling</i> , (pp.838-844). Modelling and Simulation Society of Australia and New Zealand.
Conference contribution - Paper in published proceedings	Hernandez, S., & Sallis, P. (2013). Bayesian model averaging for estimating non-stationary soil moisture data. In J. Piantadosi, R. S. Anderssen, & J. Boland (Eds.), <i>Adapting to Change: the multiple roles of modelling</i> , (pp.796-802). Modelling and Simulation Society of Australia and New Zealand.
Conference contribution - Paper in published proceedings	Sallis, P., & Nti, I K, (2013). Geospatial modelling of complex land use cover change: how to determine the adequacy and significance of variables. In A. Moore, & P. A. Whigham (Eds.), <i>Celebrating the Past - Redefining the Future: Proceedings of the 125th NZIS annual conference and SIRCS NZ 2013: GIS and Remote Sensing Research Conference</i> , (pp.171-176). New Zealand Institute of Surveyors.
Oral Presentation	Ghobakhlou, A., & Sallis, P. (2013, February). Wireless sensor network for microclimate monitoring. Presented at the University of Waikato, Hamilton, Lecture theatre L.G.04 and L-Foyer, University of Waikato, Hamilton.
Oral Presentation	Patteyn, M., Ghobakhlou, A., & Sallis, P. (2013, May). Wireless sensor network: optimization of power consumption. Presented at the Auckland University of Technology (South), MD107, Auckland University of Technology (South).
Oral Presentation	Ghobakhlou, A., Wang, X., Zandi, S., & Sallis, P. (2013, May). Environmental monitoring with multi-hop wireless sensor network. Presented at the Auckland University of Technology (South), MD107, Auckland University of Technology (South).

### Sarkar, Nurul

Publication Type	Citation
Chapter or section in books	Hossain, M. A., & Sarkar, N. I. (2013). Spectrum Handoff Management in Cognitive Radio Networks: Solutions, Modeling, and Future Research. In N. Meghanathan, & B. R. Yenumula (Eds.), <i>Cognitive Radio Technology Applications for Wireless and Mobile Ad hoc Networks</i> (pp.103-123). IGI Global.
Chapter or section in books	Sarkar, N. I. (2013). Improving WLAN Performance by Modifying an IEEE 802.11 Protocol. In N. Chilamkurti (Ed.), <i>Security, Design, and Architecture for Broadband and Wireless Network Technologies</i> (pp.15-32). Hershey, PA: IGI Global.
Chapter or section in books	Sarkar, N. I., & Petrova, K. (2013). Design and Evaluation of a Web-Based Tool for Teaching Computer Network Design to Undergraduates. In N. Karacapilidis, M. Raisinghani, & E. Ng (Eds.), <i>Web-Based and Blended Educational Tools and Innovations</i> (pp.214-234). IGI Global.
Conference contribution - Paper in published proceedings	Soorty, B., & Sarkar, N. I. (2013). Quantifying the Performance Degradation of IPv6 for TCP in Windows and Linux Networking. In <i>The Australasian Telecommunication Networks and Applications Conference (ATNAC)</i> , (pp.25-29). IEEE.
Conference contribution - Paper in published proceedings	Sarkar, N. I., & Mussa, O. (2013). The Effect of People Movement on Wi-Fi Link Throughput in Indoor Propagation Environments. In <i>IEEE 2013 Tencon - Spring</i> , (pp.598-602). IEEE Consumer Electronics Society.
Journal article	Soorty, B., & Sarkar, N. I. (2013). Quantifying TCP Performance for IPv6 in Linux-Based Server Operating Systems. <i>Cyber Journals: Multidisciplinary Journals in Science and Technology. Special Issue, Journal of Selected Areas in Telecommunications</i> , 3(11), 24-31.
Journal article	Undugodage, S. P., & Sarkar, N. I. (2013). Achieving Transmission Fairness in Distributed Medium Access Wireless Mesh Networks: Design Challenges, Guidelines and Future Directions. <i>International Journal of Wireless &amp; Mobile Networks (IJWMN)</i> , 5(3), 1-17.
Journal article	Sarkar, N. I., & Soorty, B. K. (2013). Evaluating IPv6 in Peer-to-Peer Gigabit Ethernet for TCP using Modern Windows and Linux Systems. <i>International Journal of Business Data Communications and Networking</i> , 9(1), 50-63.
Journal article	Sarkar, N. I. (2013). Design and Evaluation of a Cross-Layer Framework for Improving 802.11 Networks: An Empirical Study. <i>International Journal of Business Data Communications and Networking</i> , 9(1), 11-27.
Journal article	Nisar, K., Amphawan, A., Hassan, S., & Sarkar, N. I. (2013). A comprehensive survey on scheduler for VoIP over WLAN. <i>Journal of Network and Computer Applications</i> , 36(2), 933-948. doi:10.1016/j.jnca.2012.07.019
Oral Presentation	Sarkar, N. I. (2013, December). Wireless Networking Research Activities @AUT. Presented at the WiPro, WiPro seminar room, Kolkata, India.
Oral Presentation	Sarkar, N. I. (2013, December). Recent Development and Research Activities in Wireless Networks. Presented at the Samsung auditorium, Bangalore, India.
Oral Presentation	Sarkar, N. I. (2013, December). Recent Development and Trends in Wireless Networking. Presented at the Sasken Communication Technologies, Sasken seminar room, Bangalore, India.
Oral Presentation	Sarkar, N. I. (2013, December). Writing a research proposal for postgraduate study. Presented at the School of Computing, University Utara Malaysia, Sintok, Kedah.
Oral Presentation	Sarkar, N. I. (2013, September). Emerging Research Topics in Wireless Networks. Presented at the WF711, AUT Business Faculty Building.
Oral Presentation	Sarkar, N. I. (2013, July). Intensive Fish Farming: Modelling Issues and Challenges. Presented at the AUT/SCMS, WT126.
Oral Presentation	Sarkar, N. I. (2013, May). NSRG-CoLab Collaboration. Presented at the AUT/SCMS, WT126.
Other form of output	Sarkar, N. I. (2013). Professional development opportunity through an IEEE ComSoc DL Programme to New Zealand [English]. In S. BREGNI (Ed.), <i>Global Communications Newsletter</i> (September), 2-2. IEEE Communication Society.

Sathar, Shameer	
Publication Type	Citation
Journal article	Sathar, S., Trew, M. L., Du, P., O'Grady, G., & Cheng, L. K. (2013). A Biophysically Based Finite-State Machine Model for Analyzing Gastric Experimental Entrainment and Pacing Recordings. <i>Ann Biomed Eng</i> . doi:10.1007/s10439-013-0949-5
Journal article	Du, P., O'Grady, G., Gao, J., Sathar, S., & Cheng, L. K. (2013). Toward the virtual stomach: Progress in multiscale modeling of gastric electrophysiology and motility. <i>Wiley Interdiscip Rev Syst Biol Med</i> , 5(4), 481-493. doi:10.1002/wsbm.1218
Schliebs, Stefan	
Publication Type	Citation
Journal article	Schliebs, S., & Kasabov, N. (2013). Evolving spiking neural network-a survey. <i>Evolving Systems</i> , 4(2), 87-98.
Senapathi, Mahalakshmi	
Publication Type	Citation
Conference contribution - Paper in published proceedings	Senapathi, M., Drury, M., & Srinivasan, A. (2013). Agile Usage: Refining a Theoretical Model. In J. -N. Lee, J. -Y. M. Mao, & J. Y. L. Thong (Eds.), <i>PACIS 2013 Proceedings Paper 43</i> . Jeju Island, Korea.
Conference contribution - Paper in published proceedings	Senapathi, M., & Srinivasan, A. (2013). Sustained Agile Usage: A Systematic Literature Review. In <i>ACM International Conference Proceeding Series</i> , (pp.119-124). Porto de Galinhas, Pernambuco, Brazil.
Shanmuganathan, Subana	
Publication Type	Citation
Conference contribution - Paper in published proceedings	Shanmuganathan, S., & Whalley, J. (2013). Pixel clustering in spatial data mining: an example study with Kumeu wine region in New Zealand. In J. Piantadosi, R. S. Anderssen, & J. Boland (Eds.), <i>MODSIM2013, 20th International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand</i> , (pp.810-816). The Modelling and Simulation Society of Australia and New Zealand Inc.
Conference contribution - Paper in published proceedings	Shanmuganathan, S., Whalley, J. L., & Perez-Kuroki, A. (2013). Climate effects on grape production and quality at Kumeu, New Zealand. In J. Piantadosi, R. S. Anderssen, & J. Boland (Eds.), <i>20th MSSANZ-International Congress on Modelling and Simulation (MODSIM2013)</i> , (pp.817-823). The Modelling and Simulation Society of Australia and New Zealand.
Conference contribution - Paper in published proceedings	Whalley, J. L., & Shanmuganathan, S. (2013). Applications of image processing in viticulture: A review. In <i>20th MSSANZ-International Congress on Modelling and Simulation (MODSIM2013)</i> , (pp.531-538). The Modelling and Simulation Society of Australia and New Zealand Inc.
Conference contribution - Abstract in published proceedings	Shanmuganathan, S. (2013). Data mining techniques for analysing the weather patterns in Kumeu multi-sensor data. In <i>proceedings of IEEE Workshop on Smart Sensors Instrumentation and Measurement</i> , 640 Great South Road, Manukau City.
Conference contribution - Paper in published proceedings	Shanmuganathan S. (2013). Climate Change Effects on Sri Lankan Paddy Yield: An Initial Investigation Using Data Mining Algorithms. In <i>Proceedings of 20th International Congress on Modelling and Simulation (MODSIM2013)</i> Editors: Piantadosi J, Anderssen, R.S. RS, Boland J. MODSIM2013, 20th International Congress on Modelling and Simulation. 803-809. Adelaide, Australia.
Oral presentation	Shanmuganathan S. (2013). Data/Text mining techniques in modelling climate change effects on crops. University of South Australia, Adelaide, Australia
Shumanska, Alla	
Publication Type	Citation
Conference contribution - Abstract	Shymanska, A. (2013). Mathematical and Computational Modeling of Noise Characteristics of Channel Amplifiers [Abstract]. In <i>International Conference on Applied Mathematics, Modeling and Computational Science (AMMCS-2013)</i> .. Waterloo, Canada.

Journal article	Babakov, V. A., & Shymanska, A. V. (2013). Influence of dilatancy on the type of the system of equation in the plane problem of plasticity. <i>Journal of Applied Mechanics and Technical Physics</i> , 54(6), 1011-1015. doi:10.1134/S0021894413060151
Journal article	Shymanska, A., & Babakov, V. (2013). Computational models for investigation of channel amplifier's optimal parameters. <i>Journal of Computational Electronics</i> . 1-9. doi:10.1007/s10825-013-0494-3
Roopak, Sinha	
Publication Type	Citation
Authored Book	Sinha, R., Roop, P. S., & Basu, S. (2013). <i>Correct-by-Construction Approaches for SoC Design</i> . Springer.
Chapter or section in books	Ortel, M., Malot, M., Baumgart, A., Becker, J. S., Bogusch, R., Farfeleder, S., ... Rehkop, P. (2013). Requirements Engineering. In A. Rajan, & T. Wahl (Eds.), <i>CESAR: Cost-efficient Methods and Processes for Safety-relevant Embedded Systems</i> . Springer.
Conference contribution - Paper in published proceedings	Andalam, S., Sinha, R., Roop, P., Girault, A., & Reineke, J. (2013). Precise Timing Analysis for Direct-Mapped Caches. In <i>50th ACM/EDAC/IEEE Design Automation Conference (DAC)</i> .
Thorpe, Stephen John	
Publication Type	Citation
Conference contribution - Abstract	Thorpe, S. J., & Wu-Ross, A. (2013). Learning and Teaching Strategies in an Intercultural Context: Offshore Programme in Vietnam [Abstract]. In L. G. Chova, A. L. Martínez, & I. C. Torres (Eds.), <i>ICERI2013 Proceedings. International Association of Technology, Education and Development (IATED)</i> .
Conference contribution - Oral Presentation	Thorpe, S. J., Thomas, G., & Hunter, D. (2013, October). A review of online learning in higher education: Towards transformational learning. Presented at the <i>Online Facilitation Unconference 2013</i> .
Conference contribution - Oral Presentation	Thorpe, S. J., & Wu-Ross, A. (2013, November). Learning and teaching strategies in an intercultural context: Offshore programme in Vietnam. Presented at the <i>International Conference of Education, Research and Innovation (ICERI)</i> . Seville, Spain.
Conference contribution - Oral Presentation	Thorpe, S. J., Ru-Ross, A., & Hitchcock, L. (2013, October). Learning and teaching strategies in an intercultural context: Offshore programme in Vietnam. Presented at the <i>Second Forum on International Collaborative Academic Programs</i> . Hangzhou, China.
Conference contribution - Oral Presentation	Thorpe, S. J. (2013, October). Towards a Framework for Offshore Alumni Services in Higher Learning Institutions. Presented at the <i>Second Forum on International Collaborative Academic Programs</i> . Hangzhou, China.
Conference contribution - Paper in published proceedings	Thorpe, S. J., & Wu-Ross, A. (2013). Learning and Teaching Strategies in an Intercultural Context: Offshore Programme in Vietnam. In L. G. Chova, A. L. Martínez, & I. C. Torres (Eds.), <i>ICERI2013 Proceedings</i> , (pp.i-7454). International Association of Technology, Education and Development (IATED).
Conference contribution - Paper in published proceedings	Thorpe, S. J. (2013). Towards Online Facilitator Competencies in Collaborative Higher Learning Programmes. In J. Hitchcock, L. Hitchcock, & P. Kaskenpalo (Eds.), <i>FICAP-1 Proceedings: Collaborative Academic Programs as a Contribution to Developing Nations</i> , (pp.68-78). BrownWalker Press.
Journal article	Thorpe, S. J. (2013). Review of Leading Effective Virtual Teams: Overcoming Time and Distance to Achieve Exceptional Results. <i>Group Facilitation: A Research and Applications Journal</i> . (12), 72-72.
Usman, Muhammad	
Publication Type	Citation
Journal article	Usman, M., Pears, R., & Fong, A. C. M. (2013). A data mining approach to knowledge discovery from multidimensional cube structures. <i>Knowledge-Based Systems</i> , 40, 36-49.
Wellington, Robert James	
Publication Type	Citation
Conference contribution - Poster	Wellington, R., & Marks, S., (2013, January). An Ethnographic Study of a High Cognitive Load Driving Environment. Poster presented at the <i>AUIC 2013</i> . Adelaide, Australia.



Conference contribution - Poster	Marks, S., & Wellington, R. (2013, January). Experimental Study of Steer-by-Wire Ratios and Response Curves in a Simulated High Speed Vehicle. Poster presented at the AUIC 2013. Adelaide, Australia.
Journal article	Jebreen, I., & Wellington, R. (2013). Packaged software implementation as requirements engineering practices at SMSDCs. <i>American Academic and Scholarly Research Journal</i> , 5(3), 143-155.

### Whalley, Jacqueline Lousie

Publication Type	Citation
Conference contribution - Paper in published proceedings	Shanmuganathan, S., & Whalley, J. (2013). Pixel clustering in spatial data mining: an example study with Kumeu wine region in New Zealand. In J. Piantadosi, R. S. Anderssen, & J. Boland (Eds.), <i>MODSIM2013, 20th International Congress on Modelling and Simulation. Modelling and Simulation Society of Australia and New Zealand</i> , (pp.810-816). The Modelling and Simulation Society of Australia and New Zealand Inc.
Conference contribution - Paper in published proceedings	Shanmuganathan, S., Whalley, J. L., & Perez-Kuroki, A. (2013). Climate effects on grape production and quality at Kumeu, New Zealand. In J. Piantadosi, R. S. Anderssen, & J. Boland (Eds.), <i>20th MSSANZ-International Congress on Modelling and Simulation (MODSIM2013)</i> , (pp.817-823). The Modelling and Simulation Society of Australia and New Zealand.
Conference contribution - Paper in published proceedings	Whalley, J. L., & Shanmuganathan, S. (2013). Applications of image processing in viticulture: A review. In <i>20th MSSANZ-International Congress on Modelling and Simulation (MODSIM2013)</i> , (pp.531-538). The Modelling and Simulation Society of Australia and New Zealand Inc.
Conference contribution - Paper in published proceedings	Kasto, N., & Whalley, J. L. (2013). Measuring the difficulty of code comprehension tasks using software metrics. In A. Carbone, & J. L. Whalley (Eds.), <i>15th Australasian Computer Education Conference (ACE 2013)</i> , 136, (pp.57-63). ACS.
Conference contribution - Paper in published proceedings	Whalley, J. L., & Kasto, N. (2013). Revisiting models of human conceptualisation in the context of a programming examination. In A. Carbone, & J. L. Whalley (Eds.), <i>15th Australasian Computer Education Conference (ACE 2013)</i> , 136, (pp.64-73). Australian Computer Society.

### Yan, Wei-Qi

Publication Type	Citation
Chapter or section in books	Abbasi, B., Gulzar, N., Ozbal, A., Wu, E., & Yan, W. -Q. (2013). Surveillance privacy protection. In P. Atrey, & M. Kankanhalli (Eds.), <i>Intelligent Multimedia Surveillance</i> (pp.83-105). USA: Springer.
Chapter or section in books	Foye, E., Prasad, S., Sivan, S., Faatamai, S., Yan, W. -Q., & Liu, W. (2013). A framework of content and context based network monitoring. In S. Thampi, & P. Atrey (Eds.), <i>Managing Trust in Cyberspace</i> (pp.371-389). UK: CRC publisher.
Chapter or section in books	Chandran, R., & Yan, W. -Q. (2013). A comprehensive survey of anti-forensics for network security. In S. Thampi (Ed.), <i>Managing Trust in Cyberspace</i> (pp.421-451).
Chapter or section in books	Moodley, E., Huo, G., Hsieh, M., Cai, S., & Yan, W. -Q. (2013). Password security and protection. In S. Thampi, & P. Atrey (Eds.), <i>Managing Trust in Cyberspace</i> (pp.451-473). UK: Chapman and Hall/CRC.
Conference contribution - Paper in published proceedings	Yan, W. -Q., & Chambers, J. (2013). An Empirical Approach For Digital Currency Forensics. In <i>IEEE ISCAS2013</i> , (pp.4-1). IEEE.
Journal article	Yan, W. -Q., Chambers, J., & Garhwal, A. (2013). An Empirical Approach For Digital Currency Identification. <i>Multimedia Tools and Applications</i> , 68(1), 1-13. doi:10.1007/s11042-013-1833-x
Journal article	Wang, E., & Yan, W. -Q. (2013). iNavigation: an image based indoor navigation system. <i>Springer Multimedia Tools and Applications</i> . doi:10.1007/s11042-013-1656-9
Journal article	Feng, H., Ling, H., Zou, F., Yan, W., Sarem, M., & Lu, Z. (2013). A collusion attack optimization framework toward spread-spectrum fingerprinting. <i>Applied Soft Computing Journal</i> , 13(8), 3482-3493. doi:10.1016/j.asoc.2013.04.008

Oral Presentation	Yan, W. -Q. (2013, December). Intelligent Surveillance. Presented at the Sun Yat-sen University, A101, School of Software.
Oral Presentation	Yan, W. -Q. (2013, October). Analytics of Visual Cryptography. Presented at the RM3224, SKLOIS, Chinese Academy of Sciences.
Oral Presentation	Yan, W. -Q. (2013, March). Intelligent Surveillance. Presented at the The University of Auckland, 723 Meeting Room, Tamaki Campus.

### Yang, Mee Loong

Publication Type	Citation
Conference contribution - Paper in published proceedings	Yang, M. L., Al-Anbuky, A., & Liu, W. (2013). The Multiple-Key Blom's Scheme for Key Establishment in Mobile Ad Hoc Sensor Networks. In <i>Proceedings of 19th Asia-Pacific Conference on Communications (APCC 2013)</i> , (pp.423-427). IEEE Xplore.

### Yeap, Wai Kiang Albert

Publication Type	Citation
Journal article	Hossain, M. Z., & Yeap, W. (2013). How Albot1 Computes its Topological-metric Map. <i>Procedia - Social and Behavioral Sciences</i> , 97(0), 553-560. doi:10.1016/j.sbspro.2013.10.272
Journal article	Nand, P., & Yeap, W. (2013). A framework for interpreting bridging anaphora. <i>Communications in Computer and Information Science</i> , 358, 131-144.

### Yu, Jian

Publication Type	Citation
Conference contribution - Paper in published proceedings	Hussein, M., Han, J., Yu, J., & Colman, A. (2013). Enabling Runtime Evolution of Context-aware Adaptive Services. In <i>Services Computing (SCC), 2013 IEEE International Conference on</i> , (pp.248-255). doi: 10.1109/SCC.2013.77
Conference contribution - Paper in published proceedings	Hussein, M., Han, J., Yu, J., & Colman, A. (2013). Scenario-Based Validation of Requirements for Context-Aware Adaptive Services. In <i>Web Services (ICWS), 2013 IEEE 20th International Conference on</i> , (pp.348-355). doi: 10.1109/ICWS.2013.54
Journal article	Yu, J., Sheng, Q. Z., Younas, M., & Shakshuki, E. (2013). Advances in context-aware mobile services. <i>Personal and Ubiquitous Computing</i> . 1-2.
Journal article	Kabir, M. A., Han, J., Yu, J., & Colman, A. (2013). User-centric social context information management: an ontology-based approach and platform. <i>Personal and Ubiquitous Computing</i> . 1-23.
Journal article	Falcarin, P., Valla, M., Yu, J., Licciardi, C. A., Frà, C., & Lamorte, L. (2013). Context data management: An architectural framework for context-aware services. <i>Service Oriented Computing and Applications</i> , 7(2), 151-168.
Journal article	Noor, T. H., Sheng, Q. Z., Zeadally, S., & Yu, J. (2013). Trust management of services in cloud environments: Obstacles and solutions. <i>ACM Computing Surveys</i> , 46(1).
Journal article	Yu, J., Han, J., Gunarso, S. O., & Versteeg, S. (2013). A business protocol unit testing framework for Web service composition. <i>Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)</i> , 7908 LNCS, 17-34.
Journal article	Zhang, M., Liu, C., Yu, J., Zhu, Z., & Zhang, B. (2013). A correlation context-aware approach for composite service selection. <i>Concurrency Computation Practice and Experience</i> , 25(13), 1909-1927.

### Zhang, Wenjun

Publication Type	Citation
Conference contribution - Oral Presentation	Zhang, W. (2013, October). Wave solutions in models of intracellular calcium. Presented at the National Tsing-Hua University, Hsinchu, Taiwan.
Conference contribution - Oral Presentation	Zhang, W. (2013, February). The stability of calcium wave.
Oral Presentation	Zhang, W. (2013, November). Outstanding GST Returns Estimation Model. Presented at the Department of Mathematics in National Chung Cheng University Taiwan.

## Institute for Radio Astronomy and Space Research (IRASR)

### Gulyaev, Sergei

Publication Type	Citation
Chapter or section in books	Mahmoud, M., Ensor, A., Biem, A., Elmegreen, B., & Gulyaev, S. (2013). Data Provenance and Management in Radio Astronomy: A Stream Computing Approach. In Q. Liu, & Q. Bai (Eds.), Data Provenance and Data Management in eScience (pp.129-156). Berlin, Heidelberg: Springer Verlag, Berlin, Heidelberg.
Commissioned report for external body	Weston, S., Takiguchi, H., Natusch, T., Woodburn, L., & Gulyaev, S. (2013). 2012 Warkworth 12-m VLBI Station: WARK12M. [Commissioned by International VLBI Service for Geodesy and Astrometry]. Goddard Space Flight Center: National Aeronautics and Space Administration.
Conference contribution - Abstract	Gulyaev, S. (2013). Space Astronomy and Radio Astronomical Facilities in New Zealand [Abstract]. In COSPAR Symposium. Bangkok, Thailand.
Conference contribution - Abstract	Takiguchi, H., Natusch, T., Gulyaev, S., & Fukuda, Y. (2013). Approaching Geosciences of New Zealand from the Continuous Gravity Measurements [Abstract]. In Geosciences 2013, (pp.92-92). Christchurch.
Conference contribution - Oral Presentation	Gulyaev, S. (2013, January). AUT's Warkworth Radio Astronomical Observatory [Keynote]. Presented at the New Zealand and the Beginnings of Radio Astronomy. Orewa, New Zealand.
Journal article	Mahmoud, M. S., Ensor, A., Biem, A., Elmegreen, B., & Gulyaev, S. (2013). Data provenance and management in radio astronomy: A stream computing approach. Studies in Computational Intelligence, 426, 129-156.
Journal article	Gulyaev, S. (2013). GASKAP -- The Galactic ASKAP Survey. Publications of the Astronomical Society of Australia, 30(1), 1-45. doi:10.1017/pasa.2012.003

### Natusch, Timothy John

Publication Type	Citation
Commissioned report for external body	Weston, S., Hiroshi, T., Natusch, T., Woodburn, L., & Gulyaev, S. (2013). 2012 Warkworth 12-m VLBI Station: WARK12M. [Commissioned by International VLBI Service for Geodesy and Astrometry]. Goddard Space Flight Center: National Aeronautics and Space Administration.
Conference contribution - Oral Presentation	Natusch, T. J. (2013, September). New Zealand VLBI Developments. Presented at the 2nd International VLBI Workshop. Jeju Island South Korea.
Journal article	Tsapras, Y., Choi, J. -Y., Street, R. A., Han, C., Bozza, V., Gould, A., ... Yonehara, P. C. M. Y. A. (2013). A Super-Jupiter orbiting a late-type star: A refined analysis of microlensing event OGLE-2012-BLG-0406.
Journal article	Furusawa, K., Udalski, A., Sumi, T., Bennett, D. P., Bond, I. A., Gould, A., ... Zub, M. (2013). MOA-2010-BLG-328Lb: a sub-Neptune orbiting very late M dwarf? .
Journal article	Han, C., Jung, Y. K., Udalski, A., Sumi, T., Gaudi, B. S., Gould, A., ... Street, R. A. (2013). Microlensing Planet Around Brown-Dwarf.
Journal article	Kains, N., Street, R., Choi, J. -Y., Han, C., Udalski, A., Almeida, L. A., ... Zub, M. (2013). A Giant Planet beyond the Snow Line in Microlensing Event OGLE-2011-BLG-0251.

### Takiguchi, Hiroshi

Publication Type	Citation
Commissioned report for external body	Weston, S., Takiguchi, H., Natusch, T., Woodburn, L., & Gulyaev, S. (2013). 2012 Warkworth 12-m VLBI Station: WARK12M. [Commissioned by International VLBI Service for Geodesy and Astrometry]. Goddard Space Flight Center: National Aeronautics and Space Administration.

### Thomasson, Peter

Publication Type	Citation
Conference contribution - Paper in published proceedings	Asanok, K., Gray, M. D., Etoke, S., Kramer, B. H., Thomasson, P., & Wuttiya, C. (2013). OH MERLIN Observations Towards the Star Forming Region IRAS 19120+1103. In S. Komonjinda, Y. Y. Kovalev, & D. Ruffolo (Eds.), NARIT Conference Series Vol 1 (2013) - Proceedings of APRIM 2011, 1, (pp.295-296). National Astronomical Research Institute of Thailand (Public Organization), Ministry of Science & Technology.
Journal article	Thomasson, P., Parijskij, Y. N., Zhelenkova, O. P., Kopylov, A. I., Temirova, A. V., Sokolov, I. V., ... Bravo Calle, O. J. A. (2013). The Multi-Band Study of the Environment of the RC J0311+0507 Radio Galaxy: A Step Forward to Understand Massive Stellar System Formation at $Z > 4$ . EAS Publications Series, 61, 439-442. doi:10.1051/eas/1361071
Oral Presentation	Thomasson, P. (2013, January). Radio Astronomy & Geodesy. Presented at the National Astronomical Research Institute of Thailand, Chiang Mai, Thailand.

### Weston, Stuart

Publication Type	Citation
Commissioned report for external body	Weston, S., Takiguchi, H., Natusch, T., Woodburn, L., & Gulyaev, S. (2013). 2012 Warkworth 12-m VLBI Station: WARK12M. [Commissioned by International VLBI Service for Geodesy and Astrometry]. Goddard Space Flight Center: National Aeronautics and Space Administration.
Conference contribution - Oral Presentation	Weston, S. (2013, December). Radio Survey Cross Identification for Data Mining. Presented at the AstroInformatics 2013.
Oral Presentation	Weston, S. (2013, September). The Renaissance of Radio Astronomy in New Zealand. Presented at the School of Physics and Astronomy, The University of Birmingham, Nuffield G22, The University of Birmingham.



## Knowledge Engineering and Discovery Institute (KEDRI)

### Kasabov, Nikola

Publication type	Citation
Chapter or section in books	Kasabov, N. (2013). The Evolution of the Evolving Neuro-Fuzzy Systems: From Expert Systems to Spiking-, Neurogenetic-, and Quantum Inspired. In R. Seising, E. Trillas, C. Moraga, & S. Termini (Eds.), <i>On Fuzziness A Homage to Lotfi A Zadeh</i> (pp.271-280). Springer.
Conference contribution - Oral Presentation	Kasabov, N. (2013). Neurocomputation as Brain Inspired Informatics: Methods, Systems, Applications' [Keynote]. Presented at the 6th Balkan Conference in Informatics, 17th Panhellenic Conference in Informatics. Thessalonici, Greece.
Conference contribution - Oral Presentation	Kasabov, N. (2013). Neurocomputing for Spatio-/Spectro Temporal Pattern Recognition and Early Event Prediction: Methods, Systems, Applications' [Keynote]. Presented at the EANN 2013. Halkidiki, Greece.
Conference contribution - Oral Presentation	Kasabov, N. (2013). Contemporary Developments in Neural Networks : Spiking Neural Networks for Adaptive Spatio-/Spectro Temporal Pattern Recognition [Plenary]. Presented at the ICANN 2013. Sofia, Bulgaria.
Conference contribution - Oral Presentation	Kasabov, N. (2013, July). Evolving Computational Intelligence: Methods, Systems, Applications [Keynote]. Presented at the International Conference on Intelligent Computing (ICIC). Nanning, China.
Conference contribution - Paper in published proceedings	Schliebs, S. Kasabov, N. Parry, D. & Hunt, D.(2013). Towards a Wearable Coach: Classifying Sports Activities with Reservoir Computing. In L. Iliadis, H. Papadopoulos, & C. Jayne (Eds.), <i>Engineering Applications of Neural Networks</i> , 383, (pp.233-242). Springer-Verlag.
Conference contribution - Paper in published proceedings	Zhou, L., Gong, C., Li, Y., Qiao, Y., Yang, J., & Kasabov, N. (2013). Salient Object Segmentation Based on Automatic Labeling. In M. Lee, A. Hirose, Z. Hou, & R. Kil (Eds.), <i>ICONIP 13</i> , (pp.584-591). Springer Verlag.
Conference contribution - Paper in published proceedings	Schliebs, S., Capecci, E., & Kasabov, N. (2013). A spiking neural network reservoir model for on-line cognitive activity classification based on EEG data. In M. Lee, A. Hirose, Z. Hou, & R. M. Kil (Eds.), <i>Neural Information Processing, XVIII</i> , (pp.55-62). Springer-Verlag.
Conference contribution - Paper in published proceedings	Scott, N., Kasabov, N., & Indiveri, G. (2013). NeuCube Neuromorphic Framework for Spatio-Temporal Brain Data and Its Python Implementation. In M. Lee, A. Hirose, Z. Hou, & R. Kil (Eds.), <i>ICONIP 13</i> , (pp.78-84). Springer-Verlag.
Conference contribution - Paper in published proceedings	Chen, Y., Hu, J., Kasabov, N., Hou, Z., & Cheng, L. (2013). NeuCubeRehab: A Pilot Study for EEG Classification in Rehabilitation Practice Based on Spiking Neural Networks. In M. Lee, A. Hirose, Z. Hou, & R. Kil (Eds.), <i>ICONIP 13</i> , (pp.70-77). Springer-Verlag.
Conference contribution - Paper in published proceedings	Kasabov, N., Hu, J., Chen, Y., Scott, N., & Turkova, Y. (2013). Spatio-temporal EEG data classification in the NeuCube 3D SNN Environment: Methodology and Examples. In M. Lee, A. Hirose, Z. Hou, & R. Kil (Eds.), <i>ICONIP 13</i> , (pp.63-69). Springer.
Edited Book	Mladenov, V., Koprinkova-Hristova, P., Palm, G., Villa, A., Appolloni, B., & Kasabov, N. (Eds.) (2013). <i>Artificial Neural Networks and Machine Learning - ICANN 2013 - 23rd International Conference on Artificial Neural Networks, Sofia, Bulgaria, September 10-13, 2013. Proceedings</i> . Springer. doi: 10.1007/978-3-642-40728-4
Journal article	Yi, X., Hu, Y., Jia, Z., Wang, L., Yang, J., & Kasabov, N. (2013). An enhanced multiphase Chan-Vese model for the remote sensing image segmentation. <i>Concurrency And Computation: Practice And Experience</i> . doi:10.1002/cpe.3185

Journal article	Erogbogbo, F., May, J., Swihart, M., Prasad, P., Smart, K., Jack, S., ... Gladding, P. (2013). Bioengineering Silicon Quantum Dot Theranostics using a Network Analysis of Metabolomic and Proteomic Data in Cardiac Ischemia. <i>Theranostics</i> , 3(9), 719-728. doi:10.7150/thno.5010
Journal article	Kageyama, Y., Momose, A., Takahashi, T., Ishii, M., Nishida, M., Mohemmed, A., ... Kasabov, N. (2013). Analysis of Lip Motion Change Arising due to Amusement Feeling. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 8(5). doi:10.1002/tee.21892
Journal article	Pears, R., Widiputra, H., & Kasabov, N. (2013). Evolving integrated multi-model framework for on line multiple time series prediction. <i>Evolving Systems</i> , 4(2), 99-117. doi:10.1007/s12530-012-9069-y
Journal article	Liang, Hu., & Kasabov, N. (2013). Evolving Personalized Modeling System for Integrated Feature, Neighborhood and Parameter Optimization utilizing Gravitational Search Algorithm. <i>Evolving Systems</i> . doi:10.1007/s12530-013-9081-x
Journal article	Schliebs, S., & Kasabov, N. (2013). Evolving spiking neural network-a survey. <i>Evolving Systems</i> , 4(2), 87-98. doi:10.1007/s12530-013-9074-9
Journal article	Kasabov, N., Dhoble, K., Nuntalid, N., & Indiveri, G. (2013). Dynamic evolving spiking neural networks for on-line spatio- and spectro-temporal pattern recognition. <i>Neural Networks</i> , 41, 188-201.
Journal article	Tu, E., Yang, J., Fang, J., Jia, Z., & Kasabov, N. (2013). An Experimental Comparison of Semi-supervised Learning Algorithms for Multispectral Image Classification. <i>Photogrammetric Engineering and Remote Sensing</i> , 79(4), 347-357.
Journal article	Mohemmed, A., Schliebs, S., Matsuda, S., & Kasabov, N. (2013). Training spiking neural networks to associate spatio-temporal input-output spike patterns. <i>Neurocomputing</i> , 107, 3-10. doi:10.1016/j.neucom.2012.08.034
Journal article	Jordanov, I., Apolloni, B., & Kasabov, N. (2013). Special Issue: Contemporary development of neural computation and applications. <i>Neural Computing and Applications</i> , 22(1), 1-2. doi:10.1007/s00521-012-0903-8

### Mohemmed, Ammar

Publication type	Citation
Journal article	Kageyama, Y., Momose, A., Takahashi, T., Ishii, M., Nishida, M., Mohemmed, A., ... Kasabov, N. (2013). Analysis of Lip Motion Change Arising due to Amusement Feeling. <i>IEEJ Transactions on Electrical and Electronic Engineering</i> , 8(5). doi:10.1002/tee.21892

## E - Research Outputs

- School of Engineering  
- Institute of Biomedical Technologies (IBTec)

### School of Engineering

#### Al-Anbuky, Adnan

Publication type	Citation
Conference contribution - Paper in published proceedings	Al-Anbuky, A., & Walker, C. G. (2013). Hunter Friendly Fire Avoidance: Modeling a wireless solution. In Australasia Telecommunication Networks & Applications Conference ATNAC 2013, (pp.19-24). Christchurch New Zealand.
Conference contribution - Paper in published proceedings	Yang, M. L., Al-Anbuky, A., & Liu, W. (2013). The Multiple-Key Blom's Scheme for Key Establishment in Mobile Ad Hoc Sensor Networks. In Proceedings of 19th Asia-Pacific Conference on Communications (APCC 2013), (pp.423-427). IEEE Xplore.
Conference contribution - Paper in published proceedings	Luo, B., Liu, W., & Al-Anbuky, A. (2013). Energy Aware Survivable Routing Approaches for Next Generation Networks. In Proceedings of Australasian Telecommunication Networks and Applications Conference (ATNAC 2013), (pp.60-65). IEEE Xplore.
Journal article	Al-Anbuky, A. (2013). Federated Sensor Network Prospects and Challenges. Journal of Telecommunications System and Management, 2(1). doi:10.4172/2167-0919.1000e108
Journal article	Rafique, Z., Seet, B. -C., & Al-Anbuky, A. (2013). Performance Analysis of Cooperative Virtual MIMO Systems for Wireless Sensor Networks. Sensors, 13(6), 7033-7052. doi:10.3390/s130607033
Journal article	Bogosanovic, M., Al-Anbuky, A., & Emms, G. W. (2013). Microwave nondestructive testing of wood anisotropy and scatter. IEEE Sensors Journal, 13(1), 306-313. doi:10.1109/JSEN.2012.2211192

#### Anderson, Timothy

Publication type	Citation
Conference contribution - Abstract	Anderson, T. (2013). Natural Convection Heat Transfer from a Partly Open Enclosure [Abstract]. In The 8th Australian Natural Convection Workshop. Sydney.
Conference contribution - Paper in published proceedings	Piratheepan, M., & Anderson, T. (2013). Optical characteristics of low concentration ratio solar collectors for façade applications. In R. Hasan (Ed.), Proceedings of the 20th Electronics New Zealand Conference, (pp.13-16). Massey Printery.
Conference contribution - Paper in published proceedings	Rahman Tito, M. S., Lie, T. T., & Anderson, T. (2013). A Simple Sizing Optimization Method for Wind-Photovoltaic-Battery Hybrid Renewable Energy Systems. In R. Hasan (Ed.), Proceedings of the 20th Electronics New Zealand Conference, (pp.8-12). Massey Printery.
Conference contribution - Paper in published proceedings	Anderson, T. N., Duke, M., & Carson, J. K. (2013). Performance of an unglazed solar collector for radiant cooling. In L. Aye, S. White, & S. Rowe (Eds.), Proceedings of the Australian Solar Cooling 2013 Conference, (pp.1-9). The University of Melbourne.
Journal article	Anderson, T. N. (2013). Natural convection heat transfer in V-trough solar concentrators. Solar Energy, 95(0), 224-228. doi:10.1016/j.solener.2013.06.022

#### Baig, Mirza Mansoor

Publication type	Citation
Authored Book	Baig, M. (2013). Smart Monitoring Systems for Diagnosis of Anaesthesia Related Events: A Computerized Anaesthesia Monitoring & Diagnostic System using Fuzzy Logic Modelling. Germany: LAP LAMBERT Academic Publishing.

Conference contribution - Paper in published proceedings	Baig, M., & Gholamhosseini, H. (2013). Implementation of an Advanced and Secure System Using Wireless Medical Devices in Healthcare Settings. In R. Hasan (Ed.), Proceedings of Electronics New Zealand Conference 2013, (pp.36-39). Printed in New Zealand by Massey Printery.
Conference contribution - Paper in published proceedings	Baig, M. M., & GholamHosseini, H. (2013). A remote monitoring system with early diagnosis of hypertension and Hypotension. In IEEE EMBS Special Topic Conference on Point-of-Care (POC) Healthcare Technologies: Synergy Towards Better Global Healthcare, PHT 2013, (pp.34-37).
Conference contribution - Poster	Baig, M., & GholamHosseini, H. (2013, June). A Telehealth Care System to Enhance Healthcare Delivery. Poster presented at the First IEEE Healthcare Technology Conference: Translational Engineering in Health & Medicine. Houston, TX, USA.
Journal article	Baig, M. M., & Gholamhosseini, H. (2013). Wireless remote patient monitoring in older adults. Conf Proc IEEE Eng Med Biol Soc, 2013, 2429-2432. doi:10.1109/EMBC.2013.6610030
Journal article	Baig, M. M., & Gholamhosseini, H. (2013). Smart health monitoring systems: an overview of design and modeling. J Med Syst, 37(2), 9898. doi:10.1007/s10916-012-9898-z
Journal article	Baig, M. M., Gholamhosseini, H., & Connolly, M. J. (2013). A comprehensive survey of wearable and wireless ECG monitoring systems for older adults. Med Biol Eng Comput, 51(5), 485-495. doi:10.1007/s11517-012-1021-6
Journal article	Mansoor Baig, M., Gholamhosseini, H., & Harrison, M. J. (2013). Fuzzy logic based anaesthesia monitoring systems for the detection of absolute hypovolaemia. Comput Biol Med, 43(6), 683-692. doi:10.1016/j.combiomed.2013.01.023
Journal article	Baig, M. M., Gholamhosseini, H., & Connolly, M. J. (2013). A comprehensive survey of wearable and wireless ECG monitoring systems for older adults. Medical and Biological Engineering and Computing. 1-11.
Journal article	Baig, M. M., & Gholamhosseini, H. (2013). Smart health monitoring systems: An overview of design and modeling. Journal of Medical Systems, 37(2).

#### Chen, Zhan Wen

Publication type	Citation
Conference contribution - Abstract	Cui, S., Chen, Z., & Conor, P. C. (2013). Micro-measurement for determining strain and strain rate during friction stir processing [Abstract]. In 26th New Zealand Conference on Microscopy. Christchurch NZ.
Journal article	Chen, Z. W., Yazdanian, S., & Littlefair, G. (2013). Effects of tool positioning on joint interface microstructure and fracture strength of friction stir lap Al-to-steel welds. JOURNAL OF MATERIALS SCIENCE, 48(6), 2624-2634. doi:10.1007/s10853-012-7056-0

#### Conor, Patrick Charles

Publication type	Citation
Conference contribution - Abstract	Cui, S., Chen, Z., & Conor, P. C. (2013). Micro-measurement for determining strain and strain rate during friction stir processing [Abstract]. In 26th New Zealand Conference on Microscopy. Christchurch NZ.
Conference contribution - Oral Presentation	Conor, P. C., Withy, B., & Hollis, M. (2013, February). Fractography of Structural Adhesive. Presented at the 26th New Zealand Conference on Microscopy. Christchurch NZ.
Oral Presentation	Conor, P. (2013, May). Analysis of Structural Adhesive Failure in Helicopter Rotor Blades. Presented at the WG404, AUT City Campus.

#### Currie, Jonathan David

Publication type	Citation
Conference contribution - Paper in published proceedings	Lim, H., Currie, J., & Wilson, D. I. (2013). Modelling and Optimisation of the Otahuhu B Combined Cycle Gas Turbine Power Station. In L. Wang (Ed.), Australian and New Zealand Annual Chemical Engineering Conference, (7 pages). Chemical College, Engineers Australia.



## Gholamhosseini, Hamid

Publication type	Citation
Conference contribution - Paper in published proceedings	GholamHosseini, H., & Prasad, K. (2013). Biotronic Engineering Curriculum Design: Integrating Electronic Engineering and Applied/Health Sciences. In 2013 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE), (pp.178-181). Bali, Indonesia.
Conference contribution - Paper in published proceedings	Sabouri, P., Gholamhosseini, H., & Collins, J. (2013). Border Detection of Skin Lesions on a Single System on Chip (SoC). In Y. -M. Huang, H. -C. Chao, D. -J. Deng, & J. -J. Park (Eds.), Advanced Technologies, Embedded and Multimedia for Human-centric Computing: HumanCom and EMC 2013. Springer.
Conference contribution - Paper in published proceedings	Gholamhosseini, H., & PRASAD, K. (2013). Biotronic Engineering Curriculum Design: Integrating Electronic Engineering and Applied/Health Sciences. In TALE2013 – IEEE International Conference on Teaching, Assessment and Learning for Engineering, (pp.178-181). IEEE.
Conference contribution - Paper in published proceedings	Baig, M., & Gholamhosseini, H. (2013). Implementation of an Advanced and Secure System Using Wireless Medical Devices in Healthcare Settings. In R. Hasan (Ed.), Proceedings of Electronics New Zealand Conference 2013, (pp.36-39). Printed in New Zealand by Massey Printery.
Conference contribution - Paper in published proceedings	Baig, M. M., & GholamHosseini, H. (2013). A remote monitoring system with early diagnosis of hypertension and Hypotension. In IEEE EMBS Special Topic Conference on Point-of-Care (POC) Healthcare Technologies: Synergy Towards Better Global Healthcare, PHT 2013, (pp.34-37).
Conference contribution - Poster	Baig, M., & GholamHosseini, H. (2013, June). A Telehealth Care System to Enhance Healthcare Delivery. Poster presented at the First IEEE Healthcare Technology Conference: Translational Engineering in Health & Medicine. Houston, TX, USA.
Journal article	Baig, M. M., & Gholamhosseini, H. (2013). Wireless remote patient monitoring in older adults. Conf Proc IEEE Eng Med Biol Soc, 2013, 2429-2432. doi:10.1109/EMBC.2013.6610030
Journal article	Luo, D., Sun, Y., Zhuang, J., & Gholamhosseini, H. (2013). Classification of Hundred-grass-oil Samples Using E-nose. Journal of Computational Information Systems, 9(7), 2659-2666.
Journal article	Baig, M. M., & Gholamhosseini, H. (2013). Smart health monitoring systems: An overview of design and modeling. Journal of Medical Systems, 37(2).
Journal article	Baig, M. M., Gholamhosseini, H., & Connolly, M. J. (2013). A comprehensive survey of wearable and wireless ECG monitoring systems for older adults. Med Biol Eng Comput, 51(5), 485-495. doi:10.1007/s11517-012-1021-6
Journal article	Mansoor Baig, M., Gholamhosseini, H., & Harrison, M. J. (2013). Fuzzy logic based anaesthesia monitoring systems for the detection of absolute hypovolaemia. Comput Biol Med, 43(6), 683-692. doi:10.1016/j.compbiomed.2013.01.023
Journal article	Baig, M. M., & Gholamhosseini, H. (2013). Smart health monitoring systems: an overview of design and modeling. J Med Syst, 37(2), 9898. doi:10.1007/s10916-012-9898-z

## Huang, Loulin

Publication type	Citation
Commissioned report for external body	Huang, L., Hosseini, H. G., Moldovanu, A., & Devan, K. (2013). Road Texture Depth (RTD) Monitor Development. Auckland University of Technology Research Project Report.
Conference contribution - Paper in published proceedings	Gao, S., Huang, L., & Han, B. (2013). Geometric Processing in Developing a Software Tool for NC Wire EDM. In The 2013 Asian Forum on Graphic Science, (pp.151-160). Dalian, China.
Conference contribution - Paper in published proceedings	To, J., & Huang, L. (2013). Design and Analysis of a Flying Robot's Structure and Propellers. In 20th Electronics New Zealand Conference, (pp.69-74). Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Lofti, B., & Huang, L. (2013). A NOVEL WAVE ENERGY CONVERTER USING THE STEWART PLATFORM. In 2013 International Conference & Exhibition on Clean Energy, (pp.208-217). Ottawa, Canada.

Conference contribution - Paper in published proceedings	Moldovanu, A., & Huang, L. (2013). High speed road texture measurement using laser scanning technique. In The 3rd IFAC International Conference on Intelligent Control and Automation Science, (pp.102-105). Chengdu, China.
Journal article	Huang, L., Sheng, G., & Chang, J. -Y. (2013). Adaptive flying height modulation control of hybrid active slider with thermal and piezoelectric actuators. Microsystem Technologies, 19, 1365-1368.
Journal article	Sheng, G., Huang, L., & Chang, J. -Y. (2013). Feedforward stability control of active slider in sub-nanometer spacing regime. Microsystem Technologies, 19, 1351-1355.
Journal article	Hart, N., & Huang, L. (2013). Monitoring populations of solitary bees using image processing techniques. International Journal of Computer Applications in Technology.

## Kosleck, Sascha

Publication type	Citation
Awarded Doctoral Thesis	Kosleck, S. (2013). Prediction of Wave-Structure Interaction by Advanced Wave Field Forecast (Unpublished Doctoral Thesis). Technical University Berlin, Berlin, Germany.

## Li, Xuejun (Jack)

Publication type	Citation
Conference contribution - Oral Presentation	Li, X. J. (2013, December). An Analytical Method for Centroid Computing and Its Application in Wireless Localization. Presented at the IEEE International Conference on Networks. Orchard Hotel Singapore.
Journal article	Li, X. J. (2013). Application of teletraffic engineering modelling techniques for studying smart lighting systems on energy saving. Lighting Research and Technology, 0(0), 1-15.

## Lie, Tek Tjing

Publication type	Citation
Authored Book	Fleten, S. -E., & Lie, T. T. (2013). A Stochastic Game Model Applied to the Nordic Electricity Market. Stochastic Programming: Applications in Finance, Energy, Planning and Logistics (Chapter 15).
Conference contribution - Paper in published proceedings	Chikarov, Y., Lie, T. T., & Nair, N. -K. C. (2013). Safety parameters at an electric power plant in case of the grounding device' elements failures. In IEEE Power and Energy Society General Meeting.
Conference contribution - Paper in published proceedings	Rahman Tito, M. S., Lie, T. T., & Anderson, T. (2013). A Simple Sizing Optimization Method for Wind-Photovoltaic-Battery Hybrid Renewable Energy Systems. In R. Hasan (Ed.), Proceedings of the 20th Electronics New Zealand Conference, (pp.8-12). Massey Printery.
Journal article	Chikarov, Y., Lie, T. T., & Nair, N. K. C. (2013). Modelling and analysis of current and potential distribution paths for grounding devices. IET Generation, Transmission and Distribution, 7(11), 1229-1243.
Journal article	Shen, X., Chen, S., Li, G., Zhang, Y., Jiang, X., & Lie, T. T. (2013). Configure Methodology of Onboard Supercapacitor Array for Recycling Regenerative Braking Energy of URT Vehicles. IEEE Transactions on Industry Applications, 49(4), 1678-1686.
Journal article	Chikarov, Y., Lie, T. T., & Nair, N. (2013). SAFETY PARAMETERS OF GROUNDING DEVICES AT AN ELECTRIC POWER PLANT. Electrical and Electronics Engineering: An International Journal (ELELIJ), 2(1).
Journal article	Li, G. -J., Ruan, S. -Y., & Lie, T. T. (2013). Real Power Regulation Design for Multi-Terminal VSC-HVDC Systems. Central European Journal of Engineering, 3(2), 243-252.

## Lowe, Andrew

Publication type	Citation
Chapter or section in books	Embong, A. H., Al Jumaily, A. M., Lowe, A., & Mahadevan, G. (2013). An investigation on assessment for personalized aneurysm rupture risk prediction: A research proposal. In W. R. A. Rahman, A. H. Embong, N. Razali, & A. H. Alias (Eds.), Advancing innovative knowledge towards a resilient future (pp.5-14). Wellington: Chair of Malay Studies, Victoria University of Wellington.

Intellectual property	Lowe, A. (2013). Method For Estimating A Central Pressure Waveform Obtained With A Blood Pressure Cuff. <a href="http://ipindiaservices.gov.in/patentsearch/search/index.aspx">http://ipindiaservices.gov.in/patentsearch/search/index.aspx</a> .
Journal article	Sluyter, J., Hughes, A., Thom, S., Parker, K., Lowe, A., & Scragg, R. (2013). Ethnic differences in arterial waveform measures in a large sample of adults enrolled in the Vitamin D Assessment (ViDA) Study [Abstract]. <i>Artery Research</i> , 7(3-4), 129-130. doi:10.1016/j.artres.2013.10.099
Journal article	Stoner, L.,Faulkner, J.,Lowe, A.,M. Lambrick, D.,M. Young, J.,Love, R., ... S. Rowlands, D. (2013). Should the Augmentation Index be Normalized to Heart Rate? <i>Journal of Atherosclerosis and Thrombosis</i> , advpub.
Journal article	Lin, A.,Lowe, A.,Sidhu, K.,Rawstom, J.,Maddison, R.,Kerr, A., ... Stewart, R. (2013). Relationship Between Central Arterial Pressure, Exercise and Fitness Level in Stable Coronary Artery Disease [Abstract]. <i>Heart, Lung and Circulation</i> , 22, 564-564. doi:10.1016/j.hlc.2013.04.041
Journal article	Oh, T., Lowe, A., Lin, A., & Stewart, R. (2013). Diagnosis of Atrial Fibrillation Using the Pulsecor Cardioscope Blood Pressure Device [Abstract]. <i>Heart, Lung and Circulation</i> , 22, 572-572. doi:10.1016/j.hlc.2013.04.057

### Moir, Tom

Publication type	Citation
Conference contribution - Paper in published proceedings	Moir, T. (2013). FPGA based crosstalk-resistant adaptive decorrelator. In 3rd International Conference on Innovative Computing Technology, (INTECH 2013), (pp.504-509). IEEE.
Conference contribution - Paper in published proceedings	Moir, T. (2013). System Identification Using Control Theory. In Signal Processing (DSP), 2013 18th International Conference on, (pp.1-6). IEEE.
Journal article	Moir, T. (2013). Inverting Non-minimum Phase FIR Transfer Functions. <i>American Journal of Signal Processing</i> , 3(4), 102-105. doi:10.5923/j.ajsp.20130304.02
Journal article	Moir, T. (2013). FIR System Identification Using Feedback. <i>Journal of Signal and Information Processing (JSIP)</i> , 4(4), 385-393. doi:10.4236/jsip.2013.44049
Journal article	Moir, T. J., & Harris, J. I. (2013). Decorrelation of multiple non-stationary sources using a multivariable crosstalk-resistant adaptive noise canceller. <i>International Journal of Adaptive Control and Signal Processing</i> , 27(5), 349-367.
Journal article	Moir, T. J. (2013). Filtering, smoothing and prediction using a control-loop spectral factorization method for coloured noise. <i>International Journal of Adaptive Control and Signal Processing</i> , 27(3), 153-165.

### Nates, Roy Jonathan

Publication type	Citation
Conference contribution - Paper in published proceedings	Wang, G., Nates, R. J., & Pasang, T. (2013). Modelling of GTAW Weld Pool under Marangoni Connection. In M. I. Jones (Ed.), Proceedings of the NZ Conference of Chemical and Materials Engineering 2013 (NZCCME2013), (pp.113-114). SCENZ-ICHEM.
Conference contribution - Paper in published proceedings	Robotham, A. J., Nates, R. J., Raine, J., & White, D. (2013). Reflections on the Challenge of Developing Professional Engineering Designers and Engineering Design Technologists – A New Zealand Perspective. In U. Lindemann, S. Venkataraman, Y. S. Kim, & S. W. Lee (Eds.), International Conference on Engineering Design 2013. Seoul, Korea.
Conference contribution - Paper in published proceedings	Protheroe, M. D., Al-Jumaily, A. M., & Nates, R. J. (2013). Poly-disperse Droplet Evaporation Model - Comparison with Experimental Results. In ASME 2012 International Mechanical Engineering Congress and Exposition. ASME.
Journal article	Contreras, B. M., Cronin, J. B., Schoenfeld, B. J., Nates, R. J., & Sonmez, G. T. (2013). Are all hip extension exercises created equal? <i>Strength and Conditioning Journal</i> , 35(2), 17-22.
Journal article	Protheroe, M. D., Al-Jumaily, A., & Nates, R. J. (2013). Prediction of droplet evaporation characteristics of nebuliser based humidification and drug delivery devices. <i>International Journal of Heat and Mass Transfer</i> , 60(1), 772-780.

### Neitzert, Thomas

Publication type	Citation
Journal article	Ramezani, M., Vilches, J., & Neitzert, T. (2013). Evaluation of the pull-out strength of galvanised steel strips in a cement-based material. <i>Journal of Zhejiang University SCIENCE A</i> , 14(12), 843-855.
Journal article	Ramezani, M., & Neitzert, T. (2013). Effect of Internal Pressure and Dent Depth on Strain Distribution of Pressurized Pipe Subjected to Indentation. <i>Applied Mechanics and Materials</i> , 376, 135-139.
Journal article	Ramezani, M., & Neitzert, T. (2013). Assessment of Perturbation and Homotopy-Perturbation Methods for Solving Nonlinear Oscillator Equations. <i>Applied Mechanics and Materials</i> , 376, 207-215.
Journal article	Ramezani, M., Vilches, J., & Neitzert, T. (2013). Experimental and numerical analysis pull-out strength of steel strip in foam concrete. <i>European Journal of Environmental and Civil Engineering</i> .
Journal article	Ramezani, M., & Neitzert, T. (2013). Influence of humidity on creep response of sandwich beam with a viscoelastic soft core. <i>Acta Mechanica</i> . 1-21.
Journal article	Neitzert, T., & Ramezani, M. (2013). Strain Based Evaluation of Dents in Pressurized Pipes. <i>Proceedings of World Academy of Science, Engineering and Technology</i> , 78, 77-82.

### Pasang, Timotius

Publication type	Citation
Conference contribution - Paper in published proceedings	Wang, G., Nates, R. J., & Pasang, T. (2013). Modelling of GTAW Weld Pool under Marangoni Connection. In M. I. Jones (Ed.), Proceedings of the NZ Conference of Chemical and Materials Engineering 2013 (NZCCME2013), (pp.113-114). SCENZ-ICHEM.
Journal article	Pasang, T., Chen, Z., Ramezani, M., Neitzert, T., & Au, D. (2013). The Effect of Heat Treatment Atmosphere on Hardening of Surface Region of H13 Tool Steel. <i>Journal of Materials Science and Chemical Engineering</i> , 1 (6)(1 (6)), 20-29. doi:10.4236/msce.2013.16004
Journal article	Pasang, T., Pasang, T., Sanchez Amaya, J., Tao, Y., Amaya-Vazquez, M. R., Botana, F. J., ... Kamiya, O. (2013). Comparison of Ti-5Al-5V-5Mo-3Cr Welds Performed by Laser Beam, Electron Beam and Gas Tungsten Arc Welding. <i>Procedia Engineering</i> , 63 (2013), 397-404. doi:10.1016/j.proeng.2013.08.202
Journal article	Schmid, S. R., Liu, J., Sellés, M. A., & Pasang, T. (2013). Advanced interface models for metal forming simulations. <i>Computational Materials Science</i> , 79, 763-771.
Journal article	Stephen, G. J., Pasang, T., & Withy, B. P. (2013). The effect of pitting corrosion on split sleeve cold hole expanded, bare 7075-T651 aluminium alloy. <i>Journal of Manufacturing Processes</i> , 15(1), 69-76.
Journal article	Wanhill, R. J. H., Symonds, N., Merati, A., Pasang, T., & Lynch, S. P. (2013). Five helicopter accidents with evidence of material and/or design deficiencies. <i>Engineering Failure Analysis</i> .

### Prasad, Krishnamachar

Publication type	Citation
Conference contribution - Oral Presentation	Kilby, J., & Prasad, K. (2013, December). Extracting temporal and spectral parameters from surface electromyography signals during a fatigue transaction [Keynote]. Presented at the 2013 5th International Conference on Signal Processing Systems (ISPCS 2013). Sydney, Australia.
Conference contribution - Oral Presentation	Bassey, E., Prasad, K., & Sallis, P. (2013). Analysis of SnO2 and ZnO nanoparticles prepared for gas sensing. Presented at the International Symposium on Olfaction and Electronic Nose (ISOEN2013). Daegu, South Korea.
Conference contribution - Oral Presentation	Bassey, E., Prasad, K., & Sallis, P. (2013). Characterization of SnO2 and ZnO nanostructures. Presented at the IEEE Workshop on Smart Sensors – Instrumentation and Measurement. Hamilton, NZ.



Conference contribution - Oral Presentation	Kilby, J., & Prasad, K. (2013). Analysis of surface electromyography signals using discrete Fourier transform sliding window technique. Presented at the 4th International Conference on Signal Processing Systems (ICSPS 2012). Kuala Lumpur, Malaysia.
Conference contribution - Oral Presentation	Kilby, J., & Prasad, K. (2013). Continuous wavelet analysis and classification of surface electromyography signals. Presented at the 4th International Conference on Signal Processing Systems (ICSPS 2012). Kuala Lumpur, Malaysia.
Conference contribution - Paper in published proceedings	GholamHosseini, H., & Prasad, K. (2013). Biotronic Engineering Curriculum Design: Integrating Electronic Engineering and Applied/Health Sciences. In 2013 IEEE International Conference on Teaching, Assessment and Learning for Engineering (TALE), (pp.178-181). Bali, Indonesia.
Conference contribution - Paper in published proceedings	Bassey, E., Prasad, K., & Sallis, P. (2013). Surface structure and particle analysis of combined SnO <sub>2</sub> and ZnO nanoparticles prepared for gas sensing. In F. Marquis (Ed.), The 8th Pacific Rim International Congress on Advanced Materials and Processing (PRICM8), (pp.2157-2162). The Minerals, Metals and Materials Society.
Conference contribution - Paper in published proceedings	Balasubramanian, P., Dhivyaa, D., Jayakirthika, J. P., Kaviyarasi, P., & Prasad, K. (2013). Low Power self-timed carry lookahead adders. In R. Geiger, & J. Carletta (Eds.), 2013 IEEE 56th International Midwest Symposium on Circuits and Systems (MWSCAS), (pp.457-460). The Printing House, Inc.
Journal article	Kilby J., & Prasad, K., (2013). Extracting temporal and spectral parameters from surface electromyography signals during a fatigue contraction. International Journal of Signal Processing Systems, 1(2), 278-283.
Journal article	Balasubramanianh, P., & Prasad, K. (2013). On Deducing the Clique Potential of Nanoscale Combinational Circuits. Current Nanoscience, 9(4, August 2013), 514-520.
Journal article	Kilby, J., & Prasad, K. (2013). Analysis of surface electromyography signals using discrete Fourier transform sliding window technique. International Journal of Computer Theory and Engineering, 5(2), 321-325. doi:10.7763/IJCTE.2013.V5.702
Journal article	Kilby, J., & Prasad, K. (2013). Continuous wavelet analysis and classification of surface electromyography signals. International Journal of Computer and Electrical Engineering, 5(1), 30-35. doi:10.7763/IJCEE.2013.V5.656

### Protheroe, Michael Desmond

Publication type	Citation
Conference contribution - Paper in published proceedings	Protheroe, M. D., Al-Jumaily, A. M., & Nates, R. J. (2013). Poly-disperse Droplet Evaporation Model - Comparison with Experimental Results. In ASME 2012 International Mechanical Engineering Congress and Exposition. ASME.
Journal article	Protheroe, M. D., Al-Jumaily, A., & Nates, R. J. (2013). Prediction of droplet evaporation characteristics of nebuliser based humidification and drug delivery devices. International Journal of Heat and Mass Transfer, 60(1), 772-780.

### Ramezani, Maziar

Publication type	Citation
Conference contribution - Oral Presentation	Ramezani, M., & Neitzert, T. (2013, December). Optimization of high temperature extrusion process of Ti-6Al-4V alloy using 3D finite element simulation [Plenary]. Presented at the International Titanium Powder Processing, Consolidation and Metallurgy Conference. Hamilton, New Zealand.
Conference contribution - Oral Presentation	Ramezani, M. (2013, June). Strain Based Evaluation of Dents in Pressurized Pipes. Presented at the ICTAM 2013 : International Conference on Theoretical and Applied Mechanics. New York, USA.
Conference contribution - Oral Presentation	Ramezani, M., & Neitzert, T. (2013, June). Analytical and Finite Element Analysis of Hydroforming Deep Drawing Process. Presented at the ICTAM 2013 : International Conference on Theoretical and Applied Mechanics. New York, USA.
Journal article	Ramezani, M., Vilches, J., & Neitzert, T. (2013). Evaluation of the pull-out strength of galvanised steel strips in a cement-based material. Journal of Zhejiang University SCIENCE A, 14(12), 843-855.

Journal article	Pasang, T., Chen, Z., Ramezani, M., Neitzert, T., & Au, D. (2013). The Effect of Heat Treatment Atmosphere on Hardening of Surface Region of H13 Tool Steel. Journal of Materials Science and Chemical Engineering, 1(6), 20-29.
Journal article	Ramezani, M., Vilches, J., & Neitzert, T. (2013). Experimental and numerical analysis pull-out strength of steel strip in foam concrete. European Journal of Environmental and Civil Engineering, 17(10), 982-1001.
Journal article	Ramezani, M., Vilches, J., & Neitzert, T. (2013). Experimental and numerical analysis pull-out strength of steel strip in foam concrete. European Journal of Environmental and Civil Engineering 17(10):982-1001 2013.
Journal article	Ramezani, M., & Hamed, E. (2013). Coupled thermo-mechanical creep behavior of sandwich beams - Modeling and analysis. European Journal of Mechanics, A/Solids, 42, 266-279.
Journal article	Ramezani, M., & Neitzert, T. (2013). Influence of humidity on creep response of sandwich beam with a viscoelastic soft core. Acta Mechanica. 1-21.
Journal article	Ramezani, M., & Neitzert, T. (2013). Effect of Internal Pressure and Dent Depth on Strain Distribution of Pressurized Pipe Subjected to Indentation. Applied Mechanics and Materials, 376, 135-139.
Journal article	Ramezani, M., & Neitzert, T. (2013). Assessment of Perturbation and Homotopy-Perturbation Methods for Solving Nonlinear Oscillator Equations. Applied Mechanics and Materials, 376, 207-215.
Journal article	Vilches, J., Ramezani, M., & Neitzert, T. (2013). Experimental investigation of the fire resistance of ultra lightweight foam concrete. International Journal of Advanced Engineering Applications, 1(4), 15-22.
Journal article	Ramezani, M., & Neitzert, T. (2013). Analytical and Finite Element Analysis of Hydroforming Deep Drawing Process. World Academy of Science, Engineering and Technology, 78, 83-94.
Journal article	Ramezani, M., & Neitzert, T. (2013). Strain Based Evaluation of Dents in Pressurized Pipes. World Academy of Science, Engineering and Technology, 78, 77-82.

### Ramos, Maximiano

Publication type	Citation
Journal article	Chowdhury, N. A., Robertson, J., Al-Jumaily, A. M., & Ramos, M. V. (2013). Enhanced electromechanical performance of a functionalized carbon nanofiber/ionic liquid/electro-active paper composite. Journal of Materials Chemistry C, 1(48), 8041-8045.

### Robotham, Antony

Publication type	Citation
Conference contribution - Paper in published proceedings	Robotham, A. J., Nates, R. J., Raine, J., & White, D. (2013). Reflections on the Challenge of Developing Professional Engineering Designers and Engineering Design Technologists – A New Zealand Perspective. In U. Lindemann, S. Venkataraman, Y. S. Kim, & S. W. Lee (Eds.), International Conference on Engineering Design 2013. Seoul, Korea.
Journal article	Meyer, G. F., Shao, F., White, M., Hopkins, C., & Robotham, A. J. (2013). Modulation of visually evoked postural responses by contextual visual, haptic and auditory information: a 'virtual reality check'. PLoS ONE, 8(6), 1-15. doi:10.1371/journal.pone.0067651
Oral Presentation	Robotham, A. (2013, July). California Dreamin' - Inspiring Innovative Car Design and Development. Presented at the Auckland Art Gallery, Auckland.

### Rotimi, James Olabode Bamidele

Publication type	Citation
Conference contribution - Paper in published proceedings	Oyewobi, L. O., Windapo, A. O., Cattell, K. S., & Rotimi, J. O. B. (2013). Impact of organisational structure and strategies on construction organisations' performance. In T. W. Yiu, & V. Gonzales (Eds.), The 38th Australasian Universities Building Education Association Conference. Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Ramachandra, T., & Rotimi, J. O. B. (2013). Evaluating the effectiveness of construction payment provisions in New Zealand. In 2013 RICS COBRA Research Conference. New Delhi/India.

Conference contribution - Paper in published proceedings	Adafin, J., Wilkinson, S., & Rotimi, J. (2013). Risk-contingency fund in the design stage elemental cost planning function: A theoretical exploration. In T. W. Yiu, & V. Gonzales (Eds.), The 38th Australasian Universities Building Education Association Conference. Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Samarasinghe, A., Tookey, J., & Rotimi, J. O. B. (2013). Supply chain collaboration in New Zealand house construction. In T. W. Yiu, & V. Gonzales (Eds.), The 38th Australasian Universities Building Education Association Conference. Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Rajeh, M., Tookey, J., & Rotimi, J. O. B. (2013). Best procurement selection: Development of a conceptual model based on transaction costs. In T. W. Yiu, & V. Gonzales (Eds.), The 38th Australasian Universities Building Education Association Conference. Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Ramachandra, T., Rotimi, J. O. B., & Kanageswaran, R. (2013). Analysis of contractors' head office overhead on compensable delay events. In T. W. Yiu, & V. Gonzales (Eds.), The 38th Australasian Universities Building Education Association Conference. Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Oyewobi, L. O., Windapo, A. O., & Rotimi, J. O. B. (2013). The effects of business environments on corporate strategies and performance of construction organisations. In S. D. Smith, & D. D. Ahiaga-Dagbui (Eds.), 29th Annual conference of the Association of Researchers in Construction Management (ARCOM), (pp.691-701). ARCOM, Association of Researchers in Construction Management.
Conference contribution - Paper in published proceedings	Oyewobi, L. O., Windapo, A. O., Cattell, K., & Rotimi, J. O. B. (2013). A framework for identifying construction companies best practice: A panacea for corporate performance failure. In S. Kajewski, K. Manley, & K. Hampson (Eds.), Proceedings of the 19th International CIB World Building Congress, Brisbane 2013: Construction and Society, (12 pages). Queensland, Australia.
Conference contribution - Paper in published proceedings	Rajeh, M., Tookey, J. E., & Rotimi, J. O. (2013). Determining the magnitude of transaction costs in construction procurement systems: An exploratory study. In K. Kajewski, K. Manley, & K. Hampson (Eds.), Proceedings of the 19th International CIB World Building Congress, Brisbane 2013: Construction and Society, (13 pages). Queensland, Australia.
Journal article	Ramachandra, T., Rotimi, J. O. B., & Rameezdeen, R. (2013). The direction of causal relationships between the construction sector and the national economy in Sri Lanka. Journal of Construction in Developing Countries.
Journal article	Vilasini, N., Neitzert, T., & Rotimi, J. O. B. (2013). Developing and evaluating a framework for process improvement in an alliance project: a New Zealand case study. Construction Management and Economics. doi:10.1080/01446193.2013.874565

### Seet, Boon-Chong

Publication type	Citation
Conference contribution - Paper in published proceedings	Imran, N., Seet, B. -C., & Fong, A. (2013). An Imperceptible and Blind Watermarking Scheme Based on Wyner-Ziv Video Coding for Wireless Video Sensor Networks. In IEEE/ IIAE International Conference on Intelligent Systems and Image Processing, (8 pages). Kitakyushu, Japan.
Conference contribution - Paper in published proceedings	Zhang, J., Seet, B. -C., Lie, T. T., & Foh, C. H. (2013). Opportunities for Software Defined Networking in Smart Grid. In 9th International Conference on Information, Communications and Signal Processing (ICICSP), (5 pages). IEEE.
Conference contribution - Paper in published proceedings	LaI, K., & Seet, B. -C. (2013). Smartphone based Home Automation. In 20th Electronics New Zealand Conference (ENZCON), (pp.46-50). Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Liu, Y., Hu, X., Zhu, C., Seet, B. -C., Leung, V., Chu, T., ... Chan, H. (2013). Collaborative Mobile E-Health Employing Data Mining and Social Networking. In International MultiConference of Engineers and Computer Scientists. IAENG.
Conference contribution - Paper in published proceedings	Hu, X., Leung, V., Du, W., & Seet, B. -C. (2013). A Service-oriented Mobile Social Networking Platform for Disaster Situations. In 2013 46th Hawaii International Conference on System Sciences (HICSS). Hawaii, USA. doi: 10.1109/HICSS.2013.59

Journal article	Liu, Y., Seet, B. -C., & Al-Anbuky, A. (2013). An Ontology-based Context Model for Wireless Sensor Network (WSN) Management in the Internet of Things. Journal of Sensor and Actuator Networks, 2(4), 653-674. doi:10.3390/jsan2040653
Journal article	Imran, N., Seet, B. -C., & Fong, A. (2013). A Review of the State-of-the-Art Distributed Compressive Video Sensing Architectures. International Journal of Computer Applications in Technology.
Journal article	Sapuppo, A., & Seet, B. -C. (2013). Privacy and Technology Challenges for Ubiquitous Social Networking. International Journal of Ad Hoc and Ubiquitous Computing, (accepted: 3 September 2013).
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Journal article	Imran, N., Seet, B. -C., & Fong, A. (2013). A Semi-Oblivious Energy-Aware Adaptive Watermarking for Wireless Image Sensor Networks. Multimedia Systems, (published online: 16 May 2013), 16 pages. doi:10.1007/s00530-013-0320-6

### Singamneni, Sarat Babu

Publication type	Citation
Conference contribution - Oral Presentation	Singamneni, S. B., & Huang, B. (2013, October). Curved layer fused deposition modelling with varying raster orientations. Presented at the Asia Conference on Mechanical and Material Engineering ACMME 2013. Wuhan, China.
Journal article	Singamneni, S. B., & Huang, B. (2013). Adaptive slicing and speed- and time-dependent consolidation mechanisms in fused deposition modeling. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture. doi:10.1177/0954405413497474
Journal article	Singamneni, S. B., & Huang, B. (2013). Curved Layer Fused Deposition Modelling with Varying Raster Orientations. Applied Mechanics and Materials, 446-447, 263-269. doi:10.4028/www.scientific.net/AMM.446-447.263
Journal article	Maclaren, P., Singamneni, S., & Wilson, D. I. (2013). Technologies for engineering education. Australian Journal of Multi-disciplinary Engineering, 9(2), 185-192.

### Taylor, Adam Peter Roy

Publication type	Citation
Conference contribution - Paper in published proceedings	Boynton, M., Carrico, C., Paretti, M., Matusovich, H., & Taylor, A. (2013). Exposure Matters: Understanding the Experiences of Rural Cultures. In 43rd Annual Frontiers in Education Conference (FIE). Oklahoma City, Oklahoma, USA.

### Tookey, John

Publication type	Citation
Conference contribution - Paper in published proceedings	Samarasinghe, D. A. S., Tookey, J., & Rotimi, J. O. S. (2013). SUPPLY CHAIN COLLABORATION IN NEW ZEALAND HOUSE CONSTRUCTION. In W. Y. Tak (Ed.), Proceedings of 38th International AUBEA Conference, (pp.72-82). Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Raina, P., & Tookey, J. (2013). THE PERCEPTIONS OF RETENTIONS AS HELD BY CLIENTS, CONTRACTORS AND SUBCONTRACTORS. In W. Y. Tak, & V. Gonzalez (Eds.), Proceedings of the 38th International AUBEA Conference, (pp.95-105). Auckland New Zealand.
Conference contribution - Paper in published proceedings	Rajeh, M., Tookey, J., & Rotimi, J. (2013). BEST PROCUREMENT SELECTION: DEVELOPMENT OF A CONCEPTUAL MODEL BASED ON TRANSACTION COSTS. In W. Y. Tak, & V. Gonzalez (Eds.), Proceedings of the 38th Aubea International Conference, (pp.25-32). Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Rajeh, M., Tookey, J., & Rotimi, J. O. (2013). Determining the magnitude of transaction costs in construction procurement systems: An exploratory study. In S. Kajewski, K. Manley, & K. Hampson (Eds.), Proceedings of the 19th International CIB World Building Congress. Brisbane.
Journal article	Vidalakis, C., Tookey, J. E., & Sommerville, J. (2013). Demand uncertainty in construction supply chains: A discrete event simulation study. Journal of the Operational Research Society, 64(8), 1194-1204.

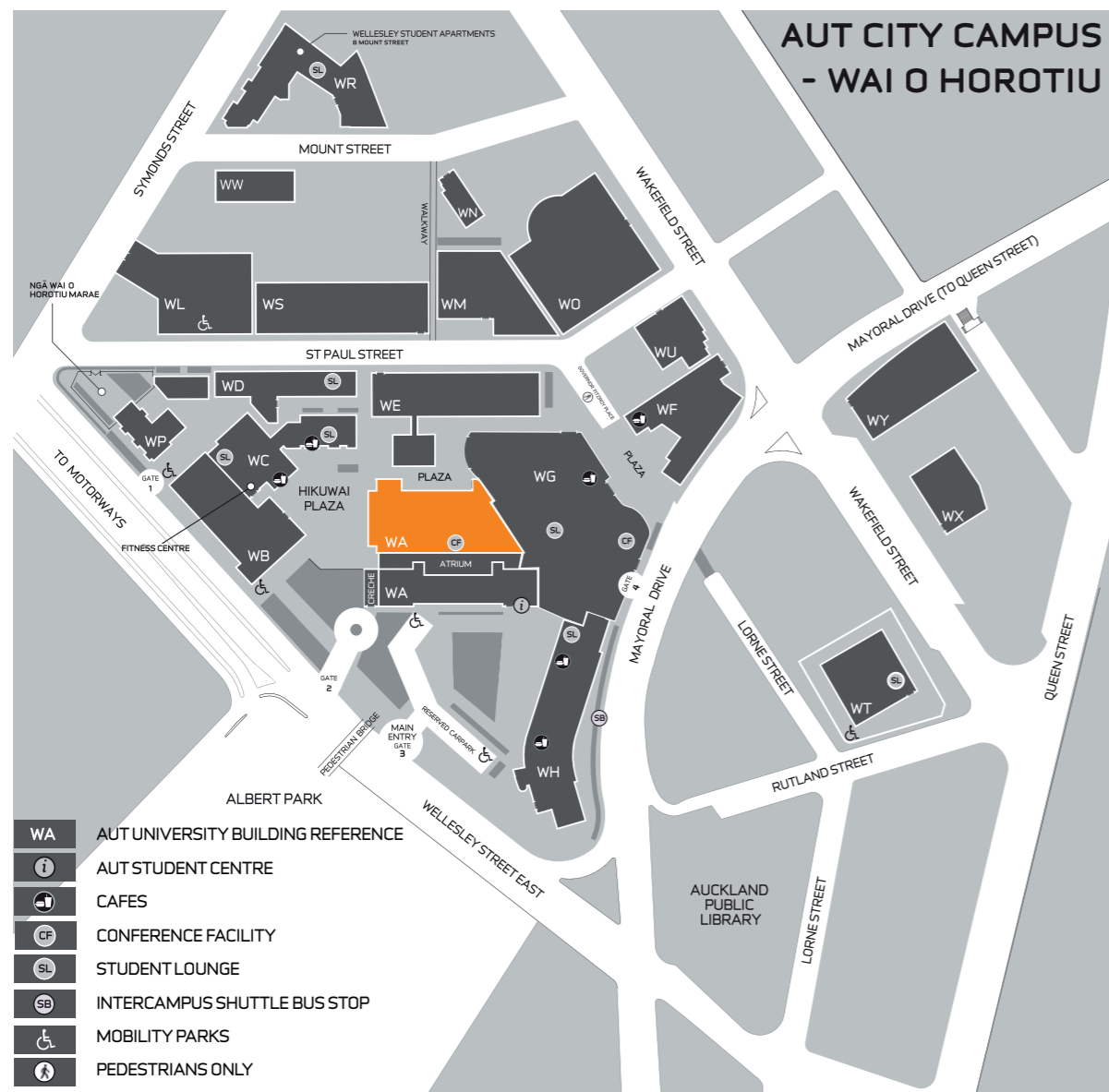


White, David Edward	
Publication type	Citation
Awarded Doctoral Thesis	White, D. E. (2013). Nasal drying during pressurised breathing (Unpublished Doctoral Thesis). Auckland University of Technology, Auckland.
Conference contribution - Oral Presentation	White, D. E., & Bartley, J. (2013, December). Sleep Apnea: A model of airway drying during n-PAP therapy [Plenary]. Presented at the 5th Annual Mechanobiology Symposium. Auckland, New Zealand.
Conference contribution - Paper in published proceedings	Robotham, A. J., Nates, R. J., Raine, J., & White, D. (2013). Reflections on the Challenge of Developing Professional Engineering Designers and Engineering Design Technologists – A New Zealand Perspective. In U. Lindemann, S. Venkataraman, Y. S. Kim, & S. W. Lee (Eds.), International Conference on Engineering Design 2013. Seoul, Korea.
Confidential report for external body	White, D. E., & Inder, S. (2013). Report on Knife Use at Amcor Flexibles Asia Pacific Albany Site. [Commissioned by Julie-Ann Eggermont]. Auckland University of Technology.
Wilson, David Ian	
Publication type	Citation
Conference contribution - Abstract	Maclaren, P., & Wilson, D. I. (2013). Redeveloping a Signature Pedagogy for Engineering: Responding to new spaces and new technologies [Abstract]. In S. Frielick (Ed.), HERDSA 2013: The place of learning and teaching. Auckland, New Zealand.
Conference contribution - Abstract	Hunter, T., Russel, N., Wilson, D. I., Depree, N., Munir, T., & Young, B. (2013). Building a real-time quality programme for dairy [Abstract]. In T. Francisco, R. Friedman, S. Hammond, & C. Moore (Eds.), 27th International Forum Process Analytical Technology, IFPAC-2013. IFPAC.
Conference contribution - Oral Presentation	Young, B. R., Depree, N., Munir, M. T., & Wilson, D. I. (2013, October). Can Process Analytical Technology Lead to Real-time Quality Management for Dairy Food Products? [Keynote]. Presented at the Chemeca 2013. Brisbane, Australia.
Conference contribution - Paper in published proceedings	Lim, H., Currie, J., & Wilson, D. I. (2013). Modelling and Optimisation of the Otahuhu B Combined Cycle Gas Turbine Power Station. In L. Wang (Ed.), Australian and New Zealand Annual Chemical Engineering Conference, (7 pages). Chemical College, Engineers Australia.
Conference contribution - Paper in published proceedings	Wilson, D. I., & Maclaren, P. (2013). From Chalk Talk to Tablet Talk: Pedagogies for Control Engineering. In A. Rossiter (Ed.), 10th IFAC Symposium on Advances in Control Education, (pp.144-149). International Federation of Automatic Control.
Journal article	Wilson, D. I. (2013). Navigating the wilds of industrial optimisation. Australian Journal of Multi-disciplinary Engineering, 9(2), 117-123.
Journal article	Maclaren, P., Singamneni, S., & Wilson, D. I. (2013). Technologies for engineering education. Australian Journal of Multi-disciplinary Engineering, 9(2), 185-192.
Oral Presentation	Hunter, T., Russel, N., Wilson, D. I., Depree, N., Munir, T., & Young, B. (2013, January). Building a real-time quality program for dairy. Presented at the 27th International Forum Process Analytical Technology, IFPAC-2013, 27th International Forum Process Analytical Technology, IFPAC-2013, Baltimore, Maryland, USA.

## Institute of Biomedical Technologies (IBTec)

### Al-Jumaily, Ahmed

Publication type	Citation
Chapter or section in books	Al-Haddad, M., Al-Jumaily, A., Brooks, J. D., & Bartley, J. (2013). Biophysical effects on chronic rhinosinusitis bacterial biofilms. In M. Vats (Ed.), Respiratory disease and infection - A new insight. Croatia: InTech.
Chapter or section in books	Embong, A. H., Al-Jumaily, A. M., Lowe, A., & Mahadevan, G. (2013). An investigation on assessment for personalized aneurysm rupture risk prediction: A research proposal. In W. R. A. Rahman, A. H. Embong, N. Razali, & A. H. Alias (Eds.), Advancing innovative knowledge towards a resilient future (pp.5-14). Wellington: Chair of Malay Studies, Victoria University of Wellington.
Conference contribution - Paper in published proceedings	Protheroe, M. D., Al-Jumaily, A. M., & Nates, R. J. (2013). Poly-disperse Droplet Evaporation Model - Comparison with Experimental Results. In ASME 2012 International Mechanical Engineering Congress and Exposition. ASME.
Conference contribution - Paper in published proceedings	Chowdhury, N. A., Robertson, J. D., Al-Jumaily, A., & Ramos, M. V. (2013). Electrically-controlled drug delivery of sulfosalicylic acid from a regenerated cellulose/functionalized carbon nanofiber matrix. In MedSci 2013 Conference. Queenstown, New Zealand.
Conference contribution - Paper in published proceedings	Jo-Avila, M., Al-Jumaily, A., Lu, J., & Sobrevia, L. (2013). Study of the combined effect of Isoproterenol and Mechanical Oscillations on the contractile response of airways from healthy and asthmatic subjects (in vivo). In ASME 2013 International Mechanical Engineering Congress & Exposition. San Diego, CA, USA.
Journal article	Chowdhury, N. A., Robertson, J., Al-Jumaily, A. M., & Ramos, M. V. (2013). Enhanced electromechanical performance of a functionalized carbon nanofiber/ionic liquid/electro-active paper composite. Journal of Materials Chemistry C, 1(48), 8041-8045. doi:10.1039/C3TC31425A
Journal article	Protheroe, M. D., Al-Jumaily, A., & Nates, R. J. (2013). Prediction of droplet evaporation characteristics of nebuliser based humidification and drug delivery devices. International Journal of Heat and Mass Transfer, 60(1), 772-780. doi:10.1016/j.ijheatmasstransfer.2013.01.053
Journal article	Al-Jumaily, A. M., Lan, H., & Stergiopoulos, N. (2013). Brachial artery waveforms for automatic blood pressure measurement. Journal of Biomechanics, 46(3), 506-510.



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