Master of Computer and Information Sciences (MCIS) and Bachelor of Computer and information Sciences Honours (BCIS Hons)

Student Theses and Dissertations 2003-2011

2011

• Photo-based campus navigation system on mobile device
• A case study based on IBM-"Earn as You Learn" University Collaboration Model: Identification of Challenges and Opportunities
• Visualisation of Dynamic Systems: Applications in Software Engineering
• A Landmark model for assigning item weights for pattern mining.
• An investigation of the impact of different operating systems and application programs on a VMware system
• Formulating design requirements for a clinical handover system: a usability approach
• JSON/XMPP service for Grid job submission
• Lip Reading from Thermal Images
• Investigating the adoptability of mobile payment technologies as replacement for cash transactions
• Does a controller-less environment provide Engagement in motion control gaming?
• An exploratory study of factors influencing IT management decisions
• Software use & its mastering gamification of a help system
• Particle Swarm Optimization of Spiking Neural Network for Sequence Learning
• An investigative study into vulnerability research and 0 – day exploits
• methods for computational modelling of risk of disease, based on single-nucleotide polymorphism (SNP) data: A comparative analysis on case study problems
• Extracting ideas from text
• Requirements prioritization methods in a large-scale project: lessons learned
• Infrastructure-as-a-service: World analysis and long-term recourse demand prediction in hosted virtualised data centres
2010

- Distributed scheduling for the Square Kilometre Array: architecture design and prototyping
- Graphic methods study for intelligent finance data analysis and decision support
- Self-organising Maps (SOMs) in software project management
- Multi-agent collaborative active learning for network intrusion detection
- Mapping of an outdoor environment with a mobile robot
- Examining user stories in an agile team
- JetBlack driver simulator interaction design - Heads up Display (HUD) evaluation and design
- Developing a method for improving the performance of TCP over MANETs
- An investigation of the impact of traffic type and node mobility on the performance of IEEE 802.16 WiMAX
- Performance study of IEEE 802.11g WLAN under noise and interference environments
- Project governance in ERP post – implementation phase in the organisation: A case study
- Holistic approach to software process improvement
- Malicious software detection by API sequence and ASCII code analysis
- A comparison of metaheuristic algorithm performance in search based software project planning
- Global vs. personalised modelling for risk of disease analysis and outcome prognosis
- The factors influencing ICT governance implementation: A case study
- Exploring m-government readiness: The case of Vanuatu
- Assisted living interface redevelopment project
- Mobile sales assistant for customers in New Zealand retail stores.
- Developing and testing of an RFID robot activity detection system
- Parsing common phrases in text
- Computing clausal representation of text
- Performance study of IEEE 802.11 WLANs in the presence of hidden stations
2009

- String kernel based sequence analysis for system security
- MEBs knowledge sharing for correlated multi-task learning
- Performance study of IEEE802.11g WLAN under noise and interference environments
- Characterization of high precision frequency standards performance for radio astronomy and industrial applications
- Using closed frequent itemsets to accelerate the generation of association rules in a data stream environment
- The development of a framework to measure the consistency of online user experience
- The factors influencing ICT governance implementation: A case study
- Soft issues in IS projects: Lessons from a Profit organization in New Zealand
- E-Government directions in the developed & developing world: The role of mobile communications & technology
- Discrimination - based active learning for outlier detection and classification
- Experimental study to identify methods of understanding activity in asimulation suite using RFID technology
- Reverse engineering applying search based software engineering
- RFID support for activity detection for the elderly
- How does RFID influence the shopping environment in New Zealand: An investigation of the views of the retail sector
- An investigation into requirements engineering capability in New Zealand
- Data management in pervasive computing
- Web traffic prediction for an online advertising company
- Use of data compression techniques for optimizing queries in data warehouses in computerised tanker cargo operations
2007-2008

- New Zealand broadband technologies adoption
- Developing a mobile robot with curiosity-driven discrimination intelligence
- Using satisfaction arguments and rich traceability in requirements prioritisation
- Environmental noise estimation for efficient speaker identification and voice change detection
- SMS-based vocabulary learning for ESL students
- Modelling and performance studies of integrated network scenarios in hospital environment
- Map compression for a graph traversal-based RFID indoor navigation system: implementation of wavelet compression
- An investigation of the impact of routing protocols on MANETs through simulation modelling
- Realization of the next-generation network - A study on network conversion toward the NGN
- Evaluate the effectiveness of test-driven development effectiveness: industrial case study
- Performance studies of IEEE 802.16-based mobile WiMAX
- A systematic method of requirement prioritization for medium to large number of requirements
- Hybrid recommender systems using item-to-item collaborative filtering
- Integrated feature, neighbourhood and model optimisation for personalised modelling
- Modelling correlation aided prediction for intelligent finance data analysis and decision support
- Identifying an effective framework for useability evaluation of open journal system in educational settings
- Forensic procedures in recompiling digital data captured from unallocated disk space about time stamping file fragment association
- Methods & system for Brain analysis and knowledge discovery: A case study on the analysis of genes involved long term potentiation in relation to learning, memory and brain diseases
- Data modelling for RFID data
- Dynamic management of software development projects
- The impact of digitalization to the TV station on media retrieval; with case study of Beijing TV station
- A survey of technologies and algorithms for parsing and indexing multimedia databases
- The use of tools and techniques in software requirements understanding in New Zealand
- Concept-based high-speed data stream mining.
- Impact of security mechanisms on consumer trust in on-line banking transactions
- Enabling mobile commerce applications adoption: a New Zealand study
- Novel applications of association rules: Data stream mining
- Performance studies of VoIP over Ethernet LANs
2007-2008 (continue)

- Multi-resolution call centre agent prediction over call volume data forecast
- Factors influencing the use of mobile banking: The case of SMS-based mobile banking
- Reinforcing good riding habits using an active feedback wrist pronation sensor and feedback device
- Visualisation of complex hierarchical structures (BCIS Hons)
- Discovery pattern interaction between variables from ontology databases on case study ‘Brain gene Ontology’
- TCP performance over Ethernet LANs: An experimental study
- Measuring the uncertainty of user requirements using fuzzy logic method
- New Zealand location aware mobile applications: The landscape and trends
- The role of task characteristics in data modelling
- User experience: the user’s sense of control in word processing applications
- Requirements impact analysis as a design tool
- A comparative study of mobile internet deployment models in New Zealand
- Impacts of signal strength on Wi-Fi link throughput
- Empirical analysis of imbalanced data sets
- Dynamic credit scoring using payment prediction
- Integrating systems in organisations that deploy web services
- Wireless network security: an experimental study
- Exploitation of constraints and frequent closed itemsets in association rule mining
- New Zealand location aware mobile applications
- Security mechanisms in IEEE 802.11-based WLANs
- The role of independent advocacy groups in RFID technology use
2003 - 2006

- Exploiting user profiles for personalised search
- An 'agile methods’ risk management evaluation & project management tool that implements risk analysis
- Risk management in smaller software projects
- Mobile data services adoption in New Zealand: future predictions
- Ontology visualisation: the brain gene ontology case
- Use of association rule mining to generate digital library ontology
- Factors influencing adoption of RFID technology in the New Zealand hospital environment
- Adoption of mobile commerce services in New Zealand
- Attitudes to the use of Pair Programming (BCIS Honours)
- Knowledge discovery from biological data: A comparative analysis of local and global models
- What do organisations think of the potential of using RFID in their supply chain management?
- Integration of mobile commerce across the supply chain in New Zealand businesses
- Factors that influence the adoption of business benefit realisation models in New Zealand organisations
- An improved media access control protocol for wireless LANs
- Individual modelling using transductive inference and genetic algorithms
- Factors affecting the adoption/continued usage of Internet banking services in New Zealand
- Exploiting constraints in association rules mining
- Modelling and performance evaluation of intelligent agents (BCIS Honours)
- Exploring consumer attitudes towards mobile gaming in New Zealand
- Trust building in e-business considering business to consumer transactions (B2C): A usability study
- Gene selection based on consistency modelling, algorithms and applications
- An algorithm for component layout subject to real world constraints
- Nearest neighbour techniques for classification of imbalanced data sets