


Computer Science Association of New Zealand http://www.cs.waikato.ac.nz/csanz

Newsletter

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NZCSRSC 2014

It gives us great pleasure to invite the post-graduate research community in Computer Science to the 12th NZ Computer Science Research Student Conference (NZCSRSC), to be held at the Uni of Canterbury from 22-24 Apl 2014.

NZCSRSC has established an enviable reputation as the event for post-grad research students to present research and receive feedback from their peers. Papers may be presented at NZCSRSC without affecting their eligibility for other conferences, and many students have successfully used the conference to fine-tune a paper or presentation intended for a specific conference in their field.

The first call-for-papers was issued earlier in Oct. We are encouraging submissions of either full papers (not exceeding 8-pages), or short papers with poster (not exceeding 4-pages), formatted to ACM standards, with details on the conference website at http://nzcsrsc.ac.nz. We'll also use Facebook (NZCSRSC) to keep in touch.

Past conferences have seen a very high standard of papers, giving little ground to those seen in full academic conferences. But what if you are a relatively new post-grad student? How can you take part when you probably don't have any results as yet, and may be in the early stages of your research? For this community we intend to increase the non-presentation sessions at this year's conference for new (and not-so-new) researchers, to discuss work with others, and to meet new colleagues working in the same area. We're excited about strengthening the appeal of NZCSRSC across all stages of post-grad research.

We look forward to welcoming you to NZCSRSC in 2014!

Thomas Young and Caitlin Duncan, Co-Chairs

Website: nzcsrsc.ac.nz

Computer Science in Schools

This year 700 students will attempt the new Year 13 Computer Science external standard, and thousands are learning programming achievement standards in high schools. The site csanz.ac.nz has been established to communicate collectively to school students from the CS Depts about the new standards; the main information there, is a brochure that was drafted with input from all CS Depts. Thousands of copies of this are being sent to schools (on request). The rollout of the new standards will be complete at the end of this year, and at the CS4HS event in Dec teachers will be able to consolidate their experience. Any academics who would like to attend one of the CS4HS workshops for teachers are welcome (it would need to be self funded). If you register, identify yourself as a self-funded academic.

To register: http://cosc.canterbury.ac.nz/cs4hs/

Tim Bell

Otago CS

News

Postgraduate Symposium

A Postgraduate Symposium was held in the Dept on 26 Aug. The 2013 publication prize was shared by **Xiangfei Jia** and **Nabeel Khan**. The best talk prize went to **Gonzalo Sanchez-Nido** for his talk on gene co-expression networks.

Summer School Courses

The dept will again be offering the popular papers COSC326 'Effective Programming' and COSC360 'Computer Game Design' in the upcoming Summer School.

Appointment

Following the departure of **Shawn Martin**, **Yawen Chen** was appointed lecturer.

Visitors

Xiaoxin Tang from Shanghai Jiao Tong Uni, working with Zhiyi Huang.

Maria Markosova from Comenius Uni, Bratislava, Slovakia is visiting the Dept from Sep to Nov. She is working with **Lubica Benuskova** on dynamic models of brain functional networks.

Enric Vallduví, from Universitat Pompeu Fabra, Barcelona, will be here for six months to continue ongoing research on the role of information structure in natural language. He will also be working with Alistair Knott on the neural basis of information structure.

Seminars

Mariusz Nowostawski, Dept of Information Science How average are you? Personal Science in Quantified Self

Atheer Matroud, Dept of Computer Science

Nested tandem repeat a marker for population genetic studies on Taro

Alec Holt, Dept of Information Science

Health Informatics and the management of paracetamol poisoning

Brendan McCane, Dept of Computer Science Touch Tracking with a Particle Filter

Jane Webster, Queen's School of Business, Canada
Getting to Green: Navigating the Road to Environmentally
Sustainable Information Technologies and Systems

Maryam Bagher Oskouei, Dept of Computer Science Simulation of Segmentation genes of Honeybee embryos



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Titip://www.cs.waikato.ac.nz/csanz

Stephen Cranefield, Dept of Information Science

Agent-oriented programming: getting from promising to mainstream (or even niche)

Lech Szymanski, Dept of Computer Science SELinux 101

Christopher Frantz and **Martin Purvis**, Dept of Information Science

Dynamic Institutional Structures

Nabeel Khan, Dept of Computer Science

Indoor scene localisation for blind people using vision

Steve MacDonell, Dept of Information Science 'Sabbatical' Report...

Ben Daniel, Higher Education Development Centre Unlocking the Value of Big Data in Higher Education

Geoff Wyvill, Dept of Computer Science Lies, Damned Lies and Clinical Studies

PhD Thesis

Kai-Cheung Leung—View-Oriented Parallel Programming and its Performance Evaluation on Multicore Architectures

MSc Theses

Aysha Al Hinai—Exploiting Social Contact for Efficient Delay Tolerant Network Routing

Jeremy Lee-Hand—Modelling the effect of actions
Tim Neumegen—A computational model of reaching to
grasp

Robert Pollock

Victoria

News

Engineering Students Win Australasian Robotics Competition.

A team of Victoria engineering students won the Australasian National Instruments Autonomous Robotics Competition with its robot 'Michelangelo', named after its turtle-like shape.

PhD Student Awarded ENZCon Best Presentation Prize

ECS PhD student **Jim Murphy** was awarded the Best Presentation prize at the annual Engineering New Zealand Conference (ENZCon) for his talk about Swivel 2, a mechatronic guitar system that he is developing with supervisors **Dale Carnegie** and **Ajay Kapur**.

Students use technology to clean up the environment

A smartphone app and website which the public could use to report livestock polluting waterways, rubbish dumping and overflows from outfall pipes have been developed by students at the School of Engineering and Computer Science, supervised by **Winston Seah.** The students have also been testing unmanned flying vehicles equipped with GPS technology to record incidents of pollution in New Zealand rivers, particularly those involving livestock. Both projects are part of River Watch, which began as part of a third-year engineering module in which students apply their project management skills in a group project, and continued as a summer research project supported by the Waterway Action Initiative New Zealand (WaiNZ).

Scholarships

Victoria Doctoral Scholarships

Ying Qu Jagadeesh Gunda Atiya Masood Adedotun Akintayo Davoud Mougouei Krishnan Lakshmi Ashan Ali Aisha Amjal

Appointments

Bryan Ng joined the Faculty of Engineering in Sep as a lecturer in Network Engineering. Bryan's research is on performance analysis of communication networks and modeling networking protocols.

Awards

Best Paper Prize

Congratulations to **Muhammad Iqbal** and his supervisors **Will Browne** and **Mengjie Zhang** on a Best Paper award at the International Conference on Evolutionary Computation.

Seminars

John Hine, Victoria Uni of Wellington

ECS Research and the NZ Science Challenges

Eddie Reisch, Reisch Consulting Ltd Experience with NetNZ

Syed Saud Naqvi, Victoria Uni of Wellington

Learning Feature Selection and Weighting Strategies for Object-Based, Task-Specific Visual Attention

James Morris, Portland State Uni, Oregon

Nanopackaging: Nanotechnologies in Microelectronics Packaging

Mohammad Nekooei, Victoria Uni of Wellington

Wireless Sensor Networks for Medical and Healthcare

Tim Jones, Victoria Uni of Wellington

Formalising a Structural, Gradual, Pluggable System

Gurvinder Virk, Uni of Gävle and KTH Royal

Insitute of Technology, Sweden Safe Mobility Exoskeletons for the Elderly

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Mawarny Binto Md. Rejab, Victoria Uni of Wellington Expertise Coordination for agile Software Development **Projects**

Neal Glew, Intel Labs

A Multivalued Language with a Dependent Type System

Tae Hong Park, New York Uni

MP3: Music Machine Media

Paul Gaynor, Uni of Canterbury

What do you get when you cross an electrical engineer with a biologist and a greenie?

Abdul Wahid, Victoria Uni of Wellington

Enhancing Knowledge Discovery by Clustering High Dimensional Multi-View

Ciaran Moore, Victoria Uni of Wellington

Near-Field Photolithography: Breaking the Diffraction Limit with Optical Superlenses

Garry Greenwood, Uni of NSW, Canberra

Introduction to Evolutionary Game Theory

Steven Tingay, International Centre for Radio Astronomy Research, Curtin Uni

Tracking Space Debris with the Murchison Widefield Array: Opportunities and Challenges

Reinventing Astronomy with Radio Telescopes: the Murchison Widefield Array and the Square Kilometre Array

Gerard Rowe, Uni of Auckland

Engineering the Transistion, and Beyond ...

Hugh Anderson, National Uni of Singapore Research at NUS: Gait and PAT

PhD Theses

Ben Drayton—Algorithms and Design Improvements for Indirect Time of Flight Range Imaging Cameras

MSc Theses

Daniel Atkins—Modern Concurrency Techniques: An Exploration

Fahni Abdulhamid—SpEx: A Tool for Visualising and Navigating Speech Audio

Shaw Wei Cheoo—The Development of a High Performance Digital RF Transmitter for NMR

Daniel Cope—A Multi-Touch Explorer Environment for

Anna Friedlander—Dirichlet Methods for Bayesian Source Detection in Radio Astronomy Images

Julian Mackay—Proofs for Owenrship and Immutability

Douglas Thomson—Hybrid Control of a Segway Platform Developed in MRDS

Amanda Holdaway

Waikato

News

Computer Science team off to Russia

A team of Computer Science second-year students Tom Levy, Matthew Law and Ryan Smith has been selected as one of two teams from the South Pacific region to compete in the world finals of the ACM-ICPC (International Collegiate Programming Contest) in Russia in 2014. (The other team is from the Uni of New South Wales.)

Anthony Blake was invited to visit Wave Semiconductor to develop FFT code for their new (still secret) high-performance low-power processor.

FLAX (Flexible Language Acquisition) Workshops

Zhejiang Uni City College (ZUCC) teachers come annually to UoW to participate in a Tertiary Teaching in English Programme. This year the organizers received a particular request for FLAX workshops, which 15 ZUCC teachers attended. FLAX is supported by the UoW Greenstone Digital Library Software.

Awards

"Logistic Model Trees" by Niels Landwehr, Mark Hall, and Eibe Frank won the (ECML/PKDD) 2013 Test of Time award for the most influential paper published at ECML/PKDD 2003.

Henry Gouk was awarded a research scholarship by Wave Semiconductor to explore the design space of the AES encryption standard, as an undergraduate project supervised by Anthony Blake.

Ryan Ko has become a research advisor for the Cloud Security Alliance, which will help bridge several potential acad-industry collaborations in the APAC region. He also received an Outstanding Leadership Award for organising the IEEE Symposium on Trust and Security in Cloud Computing for three years since 2011 (Changsha, Liverpool and Melbourne).

Te Taka Keegan won the Uni of Waikato Māori/Indigenous Scholar award for his outstanding contribution to the revitalisation of the Māori language.

Ian Witten won the Uni of Waikato Lifetime Research Achievement award for his significant contributions in the field of data compression and machine learning.

Seminars

Toby Hutchings, PAN®

PAN agency: A case study on PAN's approach to a unique social health challenge, STI's

Gjoko Muratovski, AUT University



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Branding, Society and Popular Culture

Markus Müller, Environmental Informatics Specialist, Landcare Research

Web Dev, Mobile, HPC and friends - Environmental Informatics at Landcare Research

Hugh Anderson, School of Computing, National Uni Singapore

Studies at NUS: Gait and PAT

Johnson Witehira, PhD, artist, designer and researcher Māori typeface design and Māori typography

Jeff Johnson, UI Wizards Inc and WiserUsability.com Designing with the Mind in Mind: The Psychological Basis for UI Design Rules

Liron Turkenich, Israeli Graphic and Typeface Designer Avarit & Amharic: Combining Hebrew, Arabic, Latin and Ethopicinto a new writing system

Mark S Staveley, Senior Software Development Engineer, Microsoft

From Waikato to Microsoft

Nicholas Vandershantz, PhD student, UoW Children's Knowledge Acquisition using Digital

Diane Oyen, Postdoc researcher, Los Alamos National Labs Interactive Learning of Dependency Networks for Scientific Discovery

Stephen Downie, Graduate School of Library & Information, Uni of Illinois

Unlocking the Secrets of 3 Billion Pages: Introducing the Hathi Trust Research Centre.

Visitors

Jennifer Whisler, Fullbright Scholar, Peru, Nebraska. Mar-

Daniil Myrylenka, PhD student, Uni of Parma, Italy (originally from Belarus) visited from May-Aug. He put Wikipaedia Miner through its paces.

PhD Theses

Andreas Lof—*Improving the evaluation of network* anomaly detection using a data fusion approach Sam Sarjant—Policy search based relational reinforcement learning using the Cross-Entropy method

MSc Thesis

Mohammed Ali Alshahrani—Real time vehicle license plate recognition on mobile devices

Gregory Clarke—Visualising time

Paul Morris—Exploration of pervasive games in relation to mobile technologies

Sanhong Peng (Casey)—A location-based audio book reader

Grzegorz Śmiałowskiook—Automatic weighing for dry stock

Simon Wadsworth—Security analysis of the Evolved Packet Core of LTE networks

Min-Hsien (Sam) Weng—Automatic parallelization of data-driven JStar programs

Massey

News

Hans Guesgen has been awarded a fellowship at the Munich Uni of Applied Sciences, Germany, commencing in Mar 2014 for one semester. The fellowship programme aims at fostering international academic relations with visiting scholars from all over the world.

The Computer Science and Information Technology cluster in Palmerston North met up with the Information Technology group in Albany in Sep. This was the first time that the groups were together despite being officially the same entity since Jan this year! We chose Taupo as a convenient halfway point, and spent two days discussing points of common interest for future papers and degrees.

Appointments

Tony Norris, currently the professor of IT at Albany, is retiring at the end of this year. He will be replaced by Paul Watters, currently at the Uni of Ballarat, who will be joining us in Nov. Paul's research interests are in Human Factors in Cybercrime.

PhD Theses

We have had several PhD submissions over the past few months, and therefore hope to announce several successful oral examinations in time for the next newsletter.

Seminars

During the course of this year we have been running weekly research seminars under the management of Kuda Dube. While many of these have been internal speakers, we also welcome seminars from visitors, so if you are near Palmerston North and would like to drop by, please let us know!

Hans Guesgen

Computer Science at Massey Albany Campus

News

Our Computer Science Unit Chair, Ken Hawick is leaving Massey Uni to join the Uni of Hull in the UK. With unfailing commitment and enthusiasm, he has led the CS unit for 10

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years and founded the Complex Systems and Simulation Group.

Appointments

Ian Bond has been promoted to Associate Professor. Ian's research has led to the discovery of free-floating 'orphan' planets. He has twice received a Marsden funding grant.

Events and Seminars

Napoleon Reyes and **Andre Barczak** organised a Special Session on Embodied and Developmental Robotics for the 1st International Conference on Robot Intelligence Technology and Applications, in Gwangju, South Korea.

INMS/NZIAS Seminars

Elena Calude, Massey Uni

Inductive complexity of the P versus NP problem

Ian Bond, Massey Uni

Bound and unbound planets in the Galaxy

Daniel Playne, Massey Uni

Parallel Computing and Graphical Processing Units

Napoleon Reves, Massey Uni

Instilling Navigation Intelligence into Robots

Chris Scogings, Massey Uni

Agent-Based Simulations

Andre Barczac, Massey Uni

Challenges in Feature Extraction Methods for Computer Vision

Martin Johnson, Massey Uni

Efficient High Dynamic Range Imaging

Napoleon Reyes

Lincoln

News

Our Qualifications Reform process continues, with Bachelor reforms almost complete and attention now turning to postgraduate programmes. There are a great many changes including the introduction of a suite of common courses across all undergraduate programmes.

The Dept of Applied Computing has perhaps the most change. From 2014 we will no longer offer the B Software & IT but instead offer a specialist major within each of the three core undergraduate degrees: Agritech in the BSc, IT in the BCom, GIS & Environmental Informatics in the B Environment & Society (BES). This is a huge change and a significant number of our courses have been restructured, merged or deleted. Several new courses will come on stream over the

next three years as the programmes are rolled out. We look forward to accepting our first cohort in Semester 1, 2014.

We will also recruit, replacing Clare Churcher whose departure is imminent.

Scholarships

Josh Campbell was awarded a scholarship funded by NZ Agriseeds to work on Seed Analysis by Image Processing.

Seth Reid was awarded a departmental scholarship to develop a RaspberryPi based toolkit, also for Seed Analysis by Image Processing. Both scholarships are supervised by Stuart Charters and Keith Unsworth.

Appointments

Stuart Charters has been appointed Head of Dept.

Seminars and Events

The Dept hosted a meeting of our Computer Industry Liaison Group in Sep to update local firms on the changes to the Lincoln Computing qualifications. A number of companies working in the land-based and other industries attended and provided excellent feedback. There was particular support for Lincoln increasing work in the Geospatial area (including GIS analysis and customisation) and the new focus on Agritechnology (including robotic platforms and sensor networks).

PhD Thesis

Ellin ElinaAbdul Rahim—Exploring a Desktop Virtual Reality Application for Education: the Perspectives of Spatial Knowledge Acquisition and Information Integration

MS & IT Thesis

Tina Zitian Li—Using Mobile Devices to Access Remote Visualisations

Sharon Long

Auckland

News

Vice-Chancellor's Lecture Series hosted by the Dept in Oct. The Internet, Today and the Future. Speakers: Muriel Médard, Massachusetts Institute of Technology Giovanni Russello, UoA Simon Milne, AUT Steve Cotter, CEO of REANNZ.



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Gibbons lectures. The theme was *Picture This! Computer Graphics in New Zealand*. Speakers:

Geoff Wyvill, The Uni of Otago

A Better Paintbush?

John Lewis, VUW & Weta Digital Research

Why Academic Research Matters in Visual Effects

Burkhard Wuensche, UoA

Computer Games: Friend or Foe? Opportunities and Research Challenges in Game Technology

Gordon Mallinson, UoA

Engineering Computer Graphics

Books

Brian Carpenter's new book is out: Network Geeks: How They Built the Internet

Cris Calude and **Alastair Abbott** have contributed two chapters to *Alan Turing, His Work and Impact*, Elsevier, Amsterdam, 2013, 206–209.

Mark Wilson (with Robin Pemantle, Uni of Pennsylvania)

Analytic Combinatorics in Several Variables, published by
Cambridge Uni Press, June 2013.

Staff changes

We welcome **Brent Whiteley** and **Alexandr Shirokov** to the research programming team

Successes

Jim Goodman gained the IEEE/ACM Eckert-Mauchly award. **Gerald Weber** won a Hood Fellowship for **Terry Halpin**.

Ulrich Speidel's student **Etuate Cocker** was awarded an ICANN fellowship to present at the ICANN conference.

Alexei Drummond's student **Cameron McLean** won the Best Poster prize at the NZCSRSC 2013 conference.

Paul Denny gained funds from the International Central Network Fund for support to develop strategic activities with network partners.

Maletino Leota (one of our graduates) was featured on the front page of a recent issue of the Western Leader.

Etuate Cocker gained an InternetNZ grant attend ICICIS 2013 in Taiwan.

Andrew Luxton-Reilly won a CLeaR (Centre for Learning & Research in Higher Education) Fellowship for 2014.

Giovanni Russello received start-up funding from the UniServices board for FireDroid.

Ian Watson is an advisor to the redevelopment of the communications gallery of the Russian Polytechnic Science Museum in Moscow.

Wannes van der Mark (Research Programmer Team Leader) successfully completed the Leaders in Action programme and Heather Armstrong (Dept Manager) completed the Inspiring Leaders programme.

Events and Seminars

Prashant Gupta, UoA

Capturing the flux in Scientific Knowledge: connecting categories with the process of science

Moiz Penkar, UoA

Eyes Only: Navigating Hypertext with Gaze

J. Butcher, UoA

B-series

Umesh Kumar, UoA

Vehicle detection in night scenes

Zijiang Song, UoA

Vehicle detection in night scenes

Ewan Tempero, UoA

Towards a Curated Collection of Code Clones

Wannes van der Mark, Naderi Habib, Arturo Jimenez, Andrew Probert; UoA

Research Programmers: how to turn your ideas into nice results without having to do all the work

Niklas Carlsson, Linkoping Uni, Sweden

Popularity Dynamics and Scalable Content Delivery Techniques

Xiaofan Chen, UoA

Development of robust traceability benchmarks

Safurah Abdul Jalil, UoA

Design Eye: An Interactive Learning Environment based on the SOLO Taxonomy

Brent Whiteley, UoA

Tangible Tango: designing and fabricating tangibles with tangibles

David Huang, UoA

Detecting rare pattern changes and trends in data streams

Salvatore Flavio Pileggi, UoA

Bringing resources together in the Cloud: Semantic Resources and Social Semantics

M. Shaban Jokhio, UoA

Mutation based Evaluation of Test cases Semantic Web Services

Mozhgan Memari, UoA

On the Discovery, Enforcement and Visualization of Partial Referential Integrity in SQL Databases

Johannes Dimyadi, UoA

Automated Audit of building information models against New Zealand standards

Terry Halpin, INTI International Uni, Malaysia Data Modeling for Business People

Patrice Delmas, UoA

Image Processing for Environmental Science: Water management in Mexico City

Matthieu Barnachon, LIRIS Laboratory, Lyon Uni, France Ongoing Human Action Recognition with Motion Capture Andrew Luxton-Reilly, UoA

What's new in first year? A progress report on curriculum



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and pedagogy for first year courses in courses in Computer Science

Burkhard Wuensche, UoA

High-Definition Texture Reconstruction for 3D Imagebased Modeling

Adeel Ali, UoA

Stateful Web Services - Auto Modeling and Composition

Michael Wong, IBM

C++14: Through the Looking Glass

Dave Crocker, Brandenburg InternetWorking

Email Evolution: 40 years of changing engines in midflight

Sidney Tsang, UoA

Detecting Online Auction Shilling Frauds using Supervised Learning

Christof Lutteroth, UoA

The Auckland Layout Editor: An Improved GUI Layout Specification Process

Pat Langley, UoA (inaugural lecture)

Computational Discovery of Scientific Models: Guiding Search with Knowledge and Data

Visitors

Kashif Nisar, Linkoping Uni, Sweden – visiting Ulrich Spiedel

Niklas Carlsson, ENS-Lyon, FR – visiting Aniket Mahanti Daiana Mir, Universidad de la Republica, Uruguay – visiting Alexei Drummond

Ng Keng Meng, Nanyang Technological Uni Singapore – visiting **Andre Nies**

Terence Halpin, INTI Malaysia – visiting Gerald Weber Erwan Casanova, Baudouin Boyard & Charles-Olivier

Dochez, St Cyr Military Academy, France – visiting **Patrice Delmas**

Rampal Etienne, Uni of Groningen, The Netherlands, Seelye Fellow – visiting Alexei Drummond

PhD Thesis

Jonathan Rubin— On the Construction, Maintenance and Analysis of Case-Based Strategies in Computer Poker

Heather Armstrong

AUT

News

Australasian Computer Science Week (ACSW) will be held at AUT on 20 - 23 Jan 2014.

Appointments

Alexander Gavruskin, from Uni of Novosibirsk in Russia.

Ji Ruan, Lecturer in Computer Science, from St. Francis Xavier Uni (Canada) and the Uni of New South Wales.

Jian Yu, Lecturer in Computing and Information Sciences, from Swinburne Uni of Technology and Uni of Adelaide.

Waseem Ahmad, Fixed Term Lecturer, previously a post-doctoral fellowship at AUT.

Katharina Parry, Junior Lecturer in the Dept of Creative Technologies in the School of Computing and Mathematical Sciences, from Massey Uni.

Promotions

Jiling Cao has been promoted from Associate Professor to a personal chair and full professor status.

Russel Pears and **Dave Parry** have been promoted from Senior Lecturer to Associate Professor.

Departure

Stephen MacDonell departed in July 2013. He joined the School of Computing and Mathematical Sciences as a Professor in 2010

Sabbatical Leave

Wai Yeap took up a Senior Fellowship at the Hanse Wissenschaftskolleg Institute for advanced Study in Germany, Sep to Nov 2012, as part of his sabbatical leave. He visited Bremen and gave seminars at the Universites of Bremen, Humbolt, Zurich, Osnabruck and Frieburg.

Jiling Cao visited the Uni of São Paulo as FAPESP Visiting Professor, the Uni of Helsinki and the National Uni of Ireland, Galway.

Mali Senapathi was on VC Doctoral Research & Study leave Semester 2, 2012 at Fordham Uni, New York.

PhD Theses

Jacqui Finlay—Multi-metric Predication of Software Build Outcomes

Anuj Bhowmik—Blocking Efficiency and Competitive Equilibria in Economies with Asymmetric Information

Yiwen(Raymond) Huang—A Comparative Study of the Mobile Internet Deployment Models in New Zealand

Boris Bacicy—Connectionist methods for data analysis and modelling of human motion in sporting activities

Nuttapod Nuntalid—Evolving Probabilistic Spiking Neural Networks for Modelling and Pattern Recognition of Spatio-temporal Data on the Case Study of Electroencephalography (EEG) Brain Data

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Visitors

HangXia Zhou, Zhou Yongxia, Li Zhengquan, Yang Xiaobing, Shan Liang, all from the China Jiliang Uni, China Farnon Ellwood, Uni of Cambridge

Saide Lo

Canterbury

Awards

Muhammad Asad Arfeen, a PhD student in our Network Research Group, has been awarded the ITC Student Travel Grant for attending the International Teletraffic Congress, in Shanghai, China. Asad presented a paper on "The Role of the Weibull Distribution in Internet Traffic Modeling". The paper is co-authored by K. Pawlikowski, D. McNickle and A. Willig.

Tanja Mitrovic has been elected as President of the AI in Education Society. AIEd is an interdisciplinary community spanning the fields of computer science, education and psychology.

Amir Shareghi (PhD student) was nominated for the best student paper at the ICCE 2013 conference, and also received a Merit Scholarship to attend the conference.

Seminars

Paul J. Wagner, Uni of Wisconsin, Eau Claire

Developing ad-hoc homogeneous networked laptop
instructional environments using heterogeneous systems

Stellan Ohlsson, Uni of Illinois

How Intelligent are AI Program? A Quantitative Investigation

Maode Ma, Nanyang Technological Uni

QoS Provisionaing in LTE/LTE-Advanced 4G Wireless Networks

Alistair Moffat, Uni of Melbourne

Search Evaluation Through the Eyes of the User

Wendy Lawson, Uni of Canterbury

Geospatial Science at UC: update and discussion

Jeff Johnson, UI Wizards, Inc

Designing with the Mind in Mind: The Psychological Basis for UI Design Rules.

Dijiang Huang, Arizona State UniSDN-based Network Intrusion Detection/Prevention for Cloud Virtual Networking System

Ruzelan Khalid, Uni of Canterbury

Component-based Tools for Educational Simulations

David Bainbridge, Uni of Waikato

Musical Moments.

Ryan Mallon, Open Kernel Labs

Virtualisation on mobile phones

Helena Szczerbicka, Leibniz Uni of Hanover, Germany Beyond Traditional Reliability and Maintainability Approaches: Using Biologically Inspired Techniques for Maintenance in Ad Hoc Wireless Networks

Tim Bell, Uni of Canterbury

Computer Science in High Schools: preparing for betterprepared students

Visitor

Jeff Johnson, UI Wizards Inc, San Francisco. Currently visiting on an Erskine Fellowship, has been teaching our course titled *Humans and Computers*

PhD Theses

Mashitoh Hashim—A New Algorithm and Data Structures for the All Pairs Shortest Path Problem Ruzelan Khalid—Component Based Tools for

Educational Simulations

Amali Weerasinghe—A General Model of Adaptive Tutorial Dialogues for Intelligent Tutoring Systems

MSc Thesis

Xiaohan Wang—Investigation of Forward Error Correction Coding Schemes for a Broadcast Communication System

Gillian Clinton