



THE UNIVERSITY OF
MELBOURNE

#CISDC17

School of Computing and Information Systems
5th Annual Doctoral Colloquium
19 July 2017

Programme



@cis_dc



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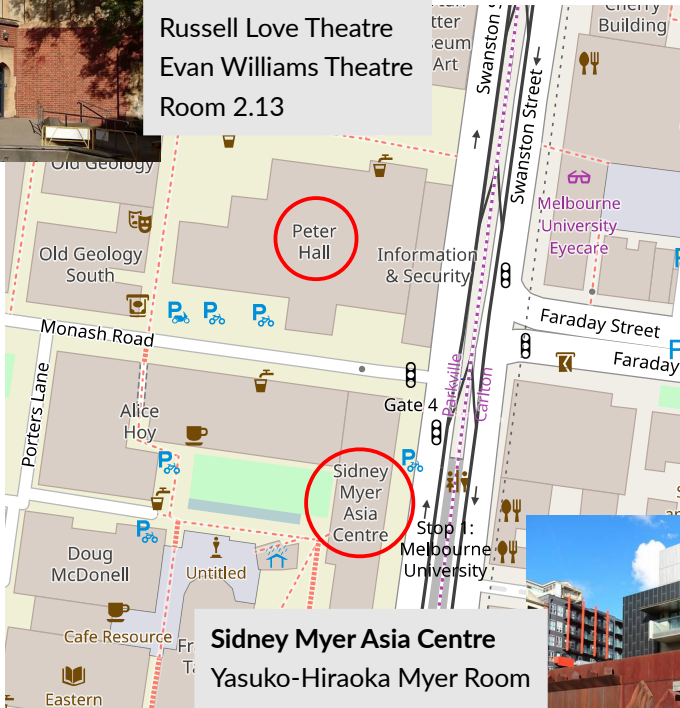


cis.unimelb.edu.au/colloquium

LOCATION GUIDE



Peter Hall Building
JH Michell Theatre
Russell Love Theatre
Evan Williams Theatre
Room 2.13



Sidney Myer Asia Centre
Yasuko-Hiraoka Myer Room



KEYNOTE ADDRESS

*Customer is not a dirty word
(and why you need them to do research that
makes a difference)*

Dr Sarah Dods

General Manager for eHealth Solutions with
Telstra Health



SCHEDULE

08:30–09:00	Registration Foyer – JH Michell Theatre Peter Hall Building		
09:00–10:00	Welcome and Keynote Address JH Michell Theatre Peter Hall Building		
10:00–10:25	Google Morning Tea Break Yasuko-Hiraoka Myer Room Sidney Myer Asia Centre		
10:30–12:25	Paper Session 1A <i>Data & Knowledge</i> Evan Williams Theatre Peter Hall Building	Paper Session 1B <i>People & Organisations</i> Russell Love Theatre Peter Hall Building	Paper Session 1C <i>Platforms & Systems</i> Room 2.13 Peter Hall Building
12:30–13:30	Lunch Break (not provided)		
13:30–14:45	Paper Session 2A <i>Data & Knowledge</i> Evan Williams Theatre Peter Hall Building	Paper Session 2B <i>Data & Knowledge</i> Russell Love Theatre Peter Hall Building	Paper Session 2C <i>Platforms & Systems/ People & Organisations</i> Room 2.13 Peter Hall Building
14:45–15:10	Melbourne School of Engineering Afternoon Tea Break Yasuko-Hiraoka Myer Room Sidney Myer Asia Centre		
15:15–16:10	Three-Minute Talk Session JH Michell Theatre Peter Hall Building		
16:15–17:10	Poster Session and Evening Refreshments Yasuko-Hiraoka Myer Room Sidney Myer Asia Centre		
17:15–18:00	Award Presentations and Closing Yasuko-Hiraoka Myer Room Sidney Myer Asia Centre		

SESSION DETAILS

Paper Session 1A: Data and Knowledge

1. Fei Liu, Trevor Cohn, Timothy Baldwin
Memory-Enhanced Conditional Random Fields for Thread Discourse Structure Prediction
2. Yitong Li, Trevor Cohn, Timothy Baldwin
Multi-task Adversarial Representation Learning for Text Classification
3. Nitika Mathur
Sequencing effects in Natural Language Processing annotations
4. Aili Shen, Jianzhong Qi, Rui Zhang
Quality Assessment of Wikipedia Articles
5. Neil Marchant, Benjamin Rubinstein
OASIS: An efficient evaluation method for entity resolution
6. Milad Chenaghlou, Masud Moshtaghi, Christopher Leckie, Mahsa Salehi
Data Stream Clustering in Non-Stationary Environments

Paper Session 1B: People and Organisations

1. Dana Mckay
What I talk about when I talk about (library shelf) browsing
2. Melissa J. Rogerson
Boardgames Rule(s)
3. Hasan Shahid Ferdous
Forget the Salt, Pass the iPad: Technology at Mealtimes
4. Luthfi Ramadani, Sherah Kurnia, Christoph Breidbach
An Interdisciplinary Perspective of Nation-Wide Health Information Systems Implementation in Developing Countries
5. Jongkil Jeong, Sherah Kurnia, Daniel Samson and Sara Cullen
The psychological contract and its impact on relationship quality in ICT outsourcing

Paper Session 1C: Platforms and Systems

1. Eman Alatawi, Tim Miller, Harald Sondergaard
Combining Metamorphic Testing and Dynamic Symbolic Execution for effective test inputs generation
2. Li Li, Sarah Erfani, Christopher Leckie
A Novel Contrast Pattern Mining Methods for Analyzing Retail Datasets
3. Ronal Singh
Communication Decisions with Shared Mental Models
4. Muhammad Hafizhuddin Hilman, Maria Alejandra Rodriguez, Rajkumar Buyya
Budget-constrained Resource Provisioning and Scheduling Algorithms for Scientific Workflow in Cloud Environments
5. Farzad Khodadadi
Power-Efficient Resource Provisioning in Hybrid Datacentres Using Micro Servers
6. Muhammed Tawfiqul Islam, Shanika Karunasekera, Rajkumar Buyya
Deadline-Aware Cost-Optimized Cloud Resource Estimation for Big Data Applications

Paper Session 2A: Data and Knowledge

1. Qingyu Chen, Justin Zobel, Karin Verspoor
Biocuration experts on the impact of duplication and other data quality issues in biological databases
2. Xin Li, Kathleen Gray, Karin Verspoor
Using Learning Analytics to Understand Health Professionals' Informal Learning in Online Social Networks
3. Yixin Xu, Jianzhong Qi, Renata Borovica-Garjic, Yu Sun, Rui Zhang
Reverse Nearest Neighbour Heatmap in Spatial networks
4. Jiayuan He, Jianzhong Qi, Rui Zhang
Efficient Indexing and Querying of Periodic Data

Paper Session 2B: Data and Knowledge

1. Stephan Gloeckner, Salla Eliisa Toikkanen, Richard Sinnott
The Trade-Offs in Data Trustworthiness and Data Completeness in Clinical Research Registries
2. Yang Lu, Richard Sinnott, Karin Verspoor, Udaya Parampalli
Effective Preservation of Privacy During Record Linkage
3. Mahtab Mirmomeni, Lars Kulik, James Bailey
Activity recognition of post-surgery patients through data analytics on time-series data from wearable sensors
4. Sehrish Kanwal, Andrew Lonie, Richard Sinnott
Reproducibility of Computational Genomic Workflows

Paper Session 2C: People and Organisations/Platforms and Systems

1. Sarah Webber, Wally Smith, Marcus Carter, Frank Vetere
Zoo Visitors Kinecting with Orangutans
2. Deepti Aggarwal
SoPhy: A Wearable Technology for Effective Video Consultations of Physiotherapy
3. Aleck Macnally, Nir Lipovetzky, Adrian Pearce, Miquel Ramirez
Planning for Transparency
4. Sadegh Motallebi, Ramamohanarao Kotagiri, Egemen Tanin
Towards a Unified System for Navigation Advice and Traffic Management

Three-Minute Talk Session

1. **Peter Eze**
Spread Spectrum Medical Image Watermarking in the Spatial Domain
2. **Oleksii Vedernikov**
Stochastic route planning for hitchhiking
3. **Yiqing Zhang**
Understanding publications in researchers' homepages
4. **Niels van Berkel**
Longitudinal Human and Digital Sensing Using Mobile Technology
5. **Romina Carrasco**
Empowering my avatar to be myself
6. **Patrick Vicky**
Authentication through Message Hiding in Frequency Domain
7. **Timoci O'Connor**
An exploration of mobile phone functionality, feedback and associated factors that influence outcomes of public health interventions
8. **Diego De Uña**
Minimizing Landscape Resistance for Habitat Conservation
9. **Yousef Kowsar**
Detecting Interval of Recurrence in Time Series
10. **Peter Chan**
Thermography as a Novel Modality for Contactless Patient Monitoring
11. **Mohammad Oloomi, Thomas Conway, Justin Zobel**
A More Accurate DNA Sequencing with Multimapping Resolution
12. **Humza Naseer**
Security Analytics
13. **Gerardo Luis Dimaguila**
Influence of Person-Generated Health Data on Patient Attitudes or Behaviours: A Kinect-type Neuro-rehabilitation Programme
14. **Adel Foda**
Grounded Knowledge for Language Understanding
15. **Anitya Nijhara**
Group dynamics in an Information Security Risk Management context: a study of Risk Perceptions
16. **Fraser Allison**
How Do We Talk to Virtual Characters?

Poster Session

1. **Craig Horne, Sean B. Maynard, Atif Ahmad**
A Poster on Information Security Strategy Model
2. **Mohammadhossein Sherkat, Tim Miller, Antonette Mendoza, Rachel Burrows**
Emotional Requirements in People-Oriented Software Engineering
3. **Ziying Yang**
Pairwise Preference Relevance Judgments from Crowdsourcing
4. **Sadia Nawaz, James Bailey, Gregor Kennedy**
Sensor-free confusion detection in digital learning environments
5. **Chenxu Zhao, Rui Zhang, Jianzhong Qi**
Web Document Clustering Based on Structure and Style Similarity
6. **Sami Alkhatib**
Privacy and the Internet of Things (IoT) monitoring solutions for older adults: A systematic review
7. **Zhanna Sarsenbayeva**
Situational Impairments to Mobile Interaction
8. **Namrata Srivastava, James Bailey, Sarah Erfani**
Exploring Eye-Tracking technology in predicting subjective states of students in a digital learning environment
9. **Unni Krishnan, Alistair Moffat, Justin Zobel**
What is "Query Auto Compl"?
10. **Abdulaziz Murad**
Design Considerations for a Virtual Community of Practice for Health Practitioners: A Learner Centred Design Approach
11. **Joshua Newn**
Investigating Intent Recognition Through Gaze Awareness in User Interfaces
12. **Atlareleng Basetsana Kesilwe**
Evaluating the impact of IT in an Emergency Department through a time based comparison of IT based clinical activities vs non-IT based clinical activities
13. **Ge Yao, Udaya Parampalli**
Transformation from the Fibonacci NLFSR to the Galois NLFSR with Minimal Delay
14. **Stephanie James**
Improving Information Security Governance in Organisations
15. **Doris Hoogeveen, Karin Verspoor, Timothy Baldwin**
Detecting False Duplicate Questions in Community Question-Answering Archives
16. **Martin Reinoso**
Designing Challenges in Animated 3D Whiteboard using Augmented Reality
17. **Oscar Correa, Ramamohanarao Kotagiri, Lars Kulik and Egemen Tanin**
Ride-Sharing beats Ride-Sourcing through Hot-Spots

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