

22 November 2016

Time	Program
8:00-9:00	Registration
9:00-9:15	Opening (Welcome by Melanie James)
9:15-9:30	AIR Group Introduction (David Cornforth)
9:30-10:30	Keynote Speech (Chair: Raymond Chiong)
9:30-10:30	<p>Keynote 1: Can we have a Smarter Search, maybe one that learns? Speaker: Professor Yew Soon Ong <i>Chair of Computer Science and Engineering, Nanyang Technological University, Singapore</i></p>
10:30-10:40	Coffee Break
10:40-12:00	Invited Talks (Chair: Raymond Chiong)
10:40-11:20	<p>Talk 1: Evolutionary Many-Objective Optimization: Difficulties and Future Research Directions Speaker: Professor Hisao Ishibuchi, <i>Osaka Prefecture University, Japan</i></p>
11:20-12:00	<p>Talk 2: Evolutionary Computation, Memetic Algorithms and Data Science: Opportunities, Challenges and Duties Speaker: Professor Pablo Moscato, <i>ARC Future Fellow, The University of Newcastle, Australia</i></p>
12:00-13:00	Lunch
13:00-14:20	Invited Talks (Chair: Raymond Chiong)
13:00-13:40	<p>Talk 3: Challenges and Opportunities in Computational Social Choice Speaker: Dr Haris Aziz, <i>Data61/UNSW, Australia</i></p>
13:40-14:20	<p>Talk 4: Moment-based Robust Optimisation and its Applications Speaker: Dr Yuli Zhang, <i>Tsinghua University, China</i></p>
14:20-14:30	Coffee Break
14:30-15:30	Paper Session 1: Image Processing (Chair: Suhuai Luo)
14:30-15:00	Paper 18: Liver segmentation from abdominal CT images by maximizing the image likelihood
15:00-15:30	Paper 20: Automatic detection of microaneurysms in color fundus images
15:30-17:30	Paper Session 2: Modelling and Algorithms (Chair: David Cornforth)
15:30-16:00	Paper 29: Metaheuristic calibration of an agent-based model for modeling freemium adoption dynamics
16:00-16:30	Paper 22: Performance comparison of manifold alignment methods applied to pendulum dynamics
16:30-17:00	Paper 32: Modelling dynamic aspect oriented programs
17:00-17:30	Paper 30: An ant colony optimization algorithm with local search for the mixed blocking flowshop scheduling problem

23 November 2016

Time	Program
9:00-10:00	Keynote Speech (Chair: Raymond Chiong)
9:00-10:00	Keynote 2: Increasing Revenue, Margin, and Customer Engagement through Automated Analytics Speaker: Emeritus Professor Zbigniew Michalewicz <i>Chief Scientist of Complexica, Australia</i>
10:00-10:10	Coffee Break
10:10-10:50	Invited Talks (Chair: Raymond Chiong)
10:10-10:50	Talk 5: Crowd Behaviour Mining with Virtual Environments Speaker: Associate Professor Eugene Ch'ng, <i>University of Nottingham (Ningbo Campus), China</i>
10:50-11:50	Paper Session 3: Social Media Analytics (Chair: Raymond Chiong)
10:50-11:20	Paper 21: Twitter sentiment analysis of the 2016 presidential election using an emoji training heuristic
11:20-11:50	Paper 15: Topic detection in Twitter via multilingual analysis
11:50-13:00	Lunch Break
13:00-14:30	Special Session on mHealth I (Chair: Herbert Jelinek)
13:00-13:30	Presentation by nib on their perspective on mHealth
13:30-14:00	Paper 2: Heart rate variability diagnostics using graph-based consensus clustering
14:00-14:30	Paper 40: Remote photoplethysmography: Evaluation of contactless heart rate measurement in an information systems setting
14:30-14:45	Coffee Break
14:45-16:00	Panel Discussion on Human-computer Interaction in mHealth (Chair: Marc Adam)
14:45-16:00	Justin Vaughan (nib) Prof John Attia (Health) Prof Mario Minichiello (Design) To be announced
16:00-16:30	Afternoon Tea
16:30-18:00	Special Session on mHealth II (Chair: Mario Minichiello)
16:30-17:00	Paper 28: Using mobile heart rate measurements for health promotion: An integrative theoretical framework
17:00-17:30	Paper 31: MoodBand: A mHealth framework to support self-management of mental health
17:30-18:00	Paper 33: Systems design and interpersonal dimensions in technostress
19:00-21:00	Conference Dinner

24 November 2016

Time	Program
9:00-10:00	Keynote Speech (Chair: Raymond Chiong)
9:00-10:00	Keynote 3: A Fuzzy Restricted Boltzmann Machine: An Approach to Enhance Deep Learning
	Speaker: Professor C. L. Philip Chen
	<i>Dean of Faculty of Science and Technology, University of Macau, China</i>
10:00-10:10	Coffee Break
10:10-11:40	Paper Session 4: Machine Learning (Chair: Yukun Bao)
10:10-10:40	Paper 35: Automatic identification of malicious web domains with machine learning: Investigating the class imbalance issue
10:40-11:10	Paper 39: Forecasting short-term energy consumption of Australian households using machine learning regression models
11:10-11:40	Paper 48: A computational intelligence approach for feature selection using proximity graphs
11:40-13:00	Lunch Break
13:00-14:30	Paper Session 5: ICT Education (Chair: Simon)
13:00-13:30	Paper 37: Towards a model for design and implementation of project-based learning
13:30-14:00	Paper 36: Assessing the relationship between user perception and use of ERPs in higher education institutions in Ghana
14:00-14:30	Paper 14: Detecting visual spoofing using classical cryptanalysis methods in plagiarism detection systems
14:30-15:00	Coffee Break
15:00-16:00	Workshop
	Machine Learning and Statistical Analysis by Dr Zhongyi Hu
Conference Close	