The IES2016 Program

Wednesday, 16 November 2016

From	To	Activity	Activity	Activity
8:00		Bus pick up from City centre to UNSW Canberra		
8:30	9:00	Registration		
9:00	9:30	Conference Opening		
9:30	10:30	Plenary Talk: **Autonomous systems: many possibilities and challenges, Prof. Akira Namatame – room LT10**		
10:30	11:00	Coffee Break		
11:00	12:00	Plenary Talk: **EC at Work: Opportunities and Challenges, Prof. K.C. Tan – room LT10**		
12:00	1:00	Lunch		
1:00	2:00	Plenary Talk: **Autonomous Robots for Practical Applications in Unknown and Complex Environments, Prof. Dikai Liu – room LT10**		
2:00	3:00	Plenary Talk: **More Things in Heaven and Earth, Prof. David Green – room LT10**		
3:00	3:30	Coffee Break		
3:30	4:30	Plenary Talk: **Workload Assessment using EEG Signals, Prof. Anastasios Bezerianos – room LT10**		
4:30	5:30	Plenary Talk: **Direction-based Evolutionary Algorithms, Prof. Lam Thu Bui – room LT10**		
5:30		Bus pick up from UNSW Canberra to City centre		

Thursday, 17 November 2016

From	To	Activity	Activity	Activity
8:00		Pick up from Civic to UNSW Canberra		
		CAS1 – room SR03 Chair: Saori Iwanaga	**MT1 – room SR04 Chair: Saber Elsayed**	**SIA - room SR05 Chair: Ben Niu**
8:30	8:50	**Paper 6**	**Paper 5**	**Paper 11**
8:50	9:10	**Paper 17**	**Paper 47**	**Paper 21**
9:10	9:30	**Paper 18**	**Paper 42**	**Paper 45**
9:30	10:00	Coffee Break		
		CAS2 – room SR03 Chair: Hiroshi Sato	**MT2 – room SR04 Chair: Sreenatha Anavatti**	**CISCO – room SR05 Chair: Mengjie Zhang**
10:00	10:20	**Paper 19**	**Paper 12**	**Paper 10**
10:20	10:40	**Paper 31**	**Paper 23**	**Paper 22**
10:40	11:00	**Paper 36**	**Paper 34**	**Paper 30**
		CAS3 – room SR03 Chair: Masao Kubo	**MT3 – room SR04 Chair: Erandi Lakshika**	**CIRE – room SR05 Chair: Michael Mayo**
11:00	11:20	**Paper 48**	**Paper 26**	**Paper 9**
11:20	11:40	**Paper 49**	**Paper 32**	**Paper 43**
11:40	12:00	**Paper 50**	**Paper 54**	**Paper 46**

	12:00	**1:00**	Lunch		
	1:00	**2:00**	Plenary Talk: **Investigating the Specificity of Affective Computing on the Example of Subtypes of Depression, Prof. Roland Goecke – room LT10**		
	2:00	**3:00**	Plenary Talk: **The unknown knowns in human centred computing, Prof. Tom Gedeon – room LT10**		
	3:00	**4:00**	Plenary Talk: **Optimization with Computationally Expensive Iterative Solvers: Recent Developments and Outlook, A/Prof. Tapabrata Ray – room LT10**		
	4:00	**4:30**	Coffee Break		
			CAS4 – room SR03 **Chair: Saori Iwanaga**	**MT4 – room SR04** **Chair: Yasushi Kambayashi**	**EML – room SR05** **Chair: Bing Xue**
	4:30	**4:50**	**Paper 28**	**Paper 1**	**Paper 8**
	4:50	**5:10**	**Paper 51**	**Paper 7**	**Paper 25**
	5:10	**5:30**	**Paper 52**	**Paper 24**	**Paper 44**
	5:30		Bus pick up from UNSW Canberra to banquet venue		
	6:00	**10:00**	**Banquet @ The Deck at Regatta Point**		
	10:00		Bus pick up from banquet venue to City centre		
Friday, 18 November 2016	**From**	**To**	**Activity**	**Activity**	**Activity**
	8:00		Pick up from Civic		
	8:30	**9:30**	Industry talk: **Deep Learning with Convolutional Neural Networks, Dr Jose M. Alvarez (CSIRO) – room LT10**		
	9:30	**10:00**	Coffee Break		
	10:00	**11:00**	Industry talk: **Computer Vision System Design: Deep Learning and 3D Vision, Dr Mandar Gujrathi (MathWorks Australia) – room LT10**		
	11:00	**12:00**	Industry talk: **Data Analytics and Machine Learning with MATLAB, Dr Mandar Gujrathi (MathWorks Australia) – room LT10**		
	12:00	**1:00**	Lunch		
	1:00	**2:00**	Industry talk: **Cognitive Computing I: Introduction to CC Science and Its Applications, Dr Mukesh Mohania (IBM Research - Australia) – room LT10**		
	2:00	**3:00**	Industry talk: **Cognitive Computing II: Towards Cognitive Enterprise, Mr Amit Ghildyal (Department of Defence - Australia) – room LT10**		
	3:00	**3:30**	Coffee Break and Conference Closure		
	3:30		Bus pick up from UNSW Canberra to City centre		

- **All plenary talks and tutorials are held in lecture theatre LT10 (Building 32). Sessions are held in seminar rooms SR03, SR04 and SR05 (Building 32).**

<u>Conference sessions:</u>

- **MT: Main track**
- **CAS: Complex Adaptive Systems**
- **SIA: Swarm Intelligence and Applications**
- **CISCO: Computational Intelligence for Scheduling and Combinatorial Optimization**
- **CIRE: Computational Intelligence in Renewable Energy**
- **EML: Evolutionary Machine Learning for Image Analysis and Pattern Recognition**
- **Papers submitted to the Human-Centric Computing special session have been combined with the IES Main track.**

List of accepted papers

Session	Paper #	Authors	Title
CAS1	6	Takahiro Majima, Keiki Takadama, Daisuke Watanabe and Mitujiro Katuhara	Generating Hub-Spoke Network for Public Transportation: Comparison between Genetic Algorithm and Cuckoo Search Algorithm
CAS1	17	Kento Tsukada, Taku Hasegawa, Naoki Mori and Keinosuke Matsumoto	CMA-ES with Surrogate Model Adapting to Fitness Landscape
CAS1	18	Kiyohito Fukuda, Saya Fujino, Naoki Mori and Keinosuke Matsumoto	Semi-automatic Picture Book Generation based on Story Model and Agent-based Simulation
CAS2	19	Taku Hasegawa, Yuta Araki, Naoki Mori and Keinosuke Matsumoto	Analysis of Parameter-less Population Pyramid on the Local Distribution of Inferior Individuals
CAS2	31	Tomohito Okada, Akira Namatame, Hiroshi Sato and Saori Iwanaga	A method to reduce the amount of inventoried stock in Thai supply chain
CAS2	36	Sohtaroh Saitoh, Hiroyuki Iizuka and Masahito Yamamoto	Increasing Stability of Human Interaction against Time Delay on Perceptual Crossing Experiment
CAS3	48	Masao Kubo, Hiroshi Sato, Akihiro Yamaguchi and Yuji Aruka	Similarity analysis of Survey on Employment Trends in Japan
CAS3	49	Hiroshi Sato, Tomohiro Shirakawa and Daisuke Nakagawa	The Effect of Word-of-Mouth in U-Mart Artificial Futures Market
CAS3	50	Yufei Wei, Toshiyuki Yasuda and Kazuhiro Ohkura	Autonomous Task Allocation for Swarm Robotic Systems using Behavioral Decomposition
CAS4	28	Saya Fujino, Taku Hasegawa, Miki Ueno, Naoki Mori and Keinosuke Matsumoto	The Convolutional Neural Network Model based on an Evolutionary Approach for Interactive Picture Book
CAS4	51	Fumito Uwano and Keiki Takadama	Communication-less Cooperative Q-learning Agents in Maze Problem
CAS4	52	Akinori Murata, Hiroyuki Sato and Keiki Takadama	Optimization of Aircraft Landing Route and Order Based on Novelty Search
CIRE	9	Forhad Zaman, Saber Elsayed, Tapabrata Ray and Ruhul Sarker	An Evolutionary framework for the Bi-Objectives Dynamic Economic and Environmental Dispatch Problems
CIRE	43	Huynh Thi Thanh Binh, Vo Khanh Trung, Ngo Hong Son, Eryk Dutkiewicz and Diep N Nguyen	A Local Search Algorithm for Saving Energy Cost in Duty-Cycle Wireless Sensor
CIRE	46	Michael Mayo, Maisa Daoud and Chen Zheng	Randomising Block Sizes for BlockCopy-based Wind Farm Layout Optimisation
CISCO	10	Ripon Kumar Chakrabortty, Ruhul Sarker and Daryl Essam	Resource Constrained Multi-Project Scheduling: A Priority Rule Based Evolutionary Local Search Approach
CISCO	22	Ayad Turky, Nasser Sabar and Andy Song	An Evolutionary Simulating Annealing Algorithm for Google Machine Reassignment Problem
CISCO	30	Deepak Karunakaran, Gang Chen, Yi Mei and Mengjie Zhang	Dynamic Job Shop Scheduling Under Uncertainty Using Genetic Programming
EML	8	Qi Chen, Mengjie Zhang and Bing Xue	Genetic Programming with Embedded Feature Construction for High-Dimensional Symbolic Regression
EML	25	Cao T Tran, Mengjie Zhang, Peter Andreae, Bing Xue and Lam T Bui	Multiple Imputation and Ensemble Learning for Classification with Incomplete Data
EML	44	Yuyu Liang, Mengjie Zhang and Will Browne	Feature Construction using Genetic Programming for Figure-ground Image Segmentation
MT1	5	Karam Sallam, Saber Elsayed, Ruhul Sarker and Daryl Essam	Differential Evolution with Landscape-based Operator Selection f or Solving numerical optimization problems
MT1	42	Kenta Maezawa and Hisashi Handa	Estimation of Distribution Algorithms with Graph Kernels for Graphs with Node Types
MT1	47	Masahiro Kanazaki, Taro Imamura, Takashi Matsuno and Kazuhisa Chiba	Multiple Additional Sampling by Expected Improvement Maximization in Efficient Global Optimization for Real-World Design Problem

MT2	**12**	Mengchun Xie, Mitsutoshi Murata and Shoma Sato	Acquisition of Cooperative Action by Rescue Agents with Distributed Roles
MT2	**23**	Erandi Lakshika and Michael Barlow	On Deriving a Relationship between Complexity and Fidelity in Rule based Multi-agent Systems
MT2	**34**	Sreenatha Anavatti, Caixia Li, Tapabrata Ray and Hyungbo Shim	A game-theoretic approach to the analysis of traffic assignment
MT3	**26**	Wasin Kalintha, Satoshi Ono, Masayuki Numao and Ken-Ichi Fukui	Integrating Class Information and Features in Cluster Analysis based on Evolutionary Distance Metric Learning
MT3	**32**	Masaya Nakata and Kazuhisa Chiba	Design Strategy Generation for a Sounding Hybrid Rocket via Evolutionary Rule-based Data Mining System
MT3	**54**	Md Shohel Ahmed, Sameer Alam and Michael Barlow	An Evolutionary Optimization approach for Path Planning of Arrival Aircraft for Optimal Sequencing
MT4	**1**	Yuliya Betkher, Nuno Nabais and Vitor Santos	Simulation of Darwin's and Lamarck's Theories of Evolution using Artificial Life
MT4	**7**	Ademir Gabardo, Regina Berretta, Natalie de Vries and Pablo Moscato	Where does my brand end? An overlapping community approach
MT4	**24**	Shiyou Uehara, Munehiro Takimoto and Yasushi Kambayashi	Mobile Agent Based Obstacle Avoidance in Multi-Robot Hunting
SIA	**11**	Sumana Biswas, Sreenatha Anavatti and Matthew Garratt	Obstacle Avoidance for Multi-Agent Path Planning Based on Vectorized Particle Swarm Optimization
SIA	**21**	Ben Niu, Fangfang Zhang, Li Li and Lang Wu	Particle Swarm Optimization for Yard Truck Scheduling in Container Terminal with a Cooperative Strategy
SIA	**45**	Bach H. Nguyen, Bing Xue and Peter Andreae	A Novel Binary Particle Swarm Optimisation Algorithm and its Applications on Knapsack and Feature Selection Problems