



1st International Conference on Machine Learning and Data Engineering (iCMLDE 2017), 20-22 Nov 2017, Sydney, Australia

2nd GCSTMR CONGRESS

**Venue: Western Sydney University, Building EA, Parramatta South Campus,
Sydney, Australia**

*[Corner of Victoria Road and James Ruse Drive (entrance via Victoria Road), Parramatta
South, Sydney]*

Organized by

*Global Circle for Scientific, Technological and Management Research
(GCSTMR), Sydney, Australia*

Day 1 – Monday 20 November 2017

Time	Session
8:30 – 9:30	Registration Parramatta South Campus Room: Building EA.G Foyer
9:30 – 10:00	Conference Opening Building EA, Parramatta South Campus Room: EA.G.18(LT01)
10:00 – 10:45	Plenary 1 - Professor Ian D. Moore, Queen's University, Ontario, Canada Title: Geomechanics of Trenchless Pipe Installation, Repair and Replacement Chair: Professor Chin Leo Room: EA.G.18(LT01)
10:45 – 11:15	MORNING TEA Room: Building EA.G Foyer
11:15 – 12:00	Plenary 2 – Professor Xiao-Ling Zhao, Monash University, Australia Title: Research into Hybrid Construction utilising FRP and Seawater sea sand concrete Chair: Associate Professor Fidelis Mashiri Room: EA.G.18(LT01)
12:00 – 12:45	Plenary 3 – Professor Ashish Sharma, University of New South Wales, Australia Title: Water Resources Engineering and climate change: Recent developments and future challenges Chair: Associate Professor Ataur Rahman Room: EA.G.18(LT01)
12:45 – 13:45	LUNCH Room: Building EA.G Foyer
	Session 1E: Machine Learning and Data Engineering Chair: Professor Phill Kyu Rhee Room: EA.G.27
13:45 -14:05	Simplified swarm optimization for feasibility-based rules on constrained engineering design optimization (iCMLDE15) <i>Wei-Chang Yeh and Chia-Ling Huang</i>
14:05 - 14:25	Real-time Age and Gender Estimation from Facial Images (iCMLDE25) <i>Jang-Hee Yoo, So-Hee Park and Yongjin Lee</i>
14:25 – 14:40	Anomaly Detection in Online Big Data Learning: Challenges & Solutions (iCMLDE27) <i>Md Rafiqul Islam, Rafiqul Islam and Abu Raihan M. Kamal</i>
14:40 – 14:55	Facial Expression Classification Based on Shape Features of Emoticons (iCMLDE06) <i>Akira Fujisawa, Kazuyuki Matsumoto, Minoru Yoshida and Kenji Kita</i>
14:55 – 15:10	Real-Time Iris Center Detection and Tracking From Video Images (iCMLDE08) <i>Dipankar Das, Md. Golam Rashed, Md. Rezaul Bashar and Yoshinori Kuno</i>
15:10 – 15:25	Development of Gas Accident Prediction Technique in the Area of Dense Energy Consumption by CFD Simulation (iCMLDE14) <i>Jung-Hoon Kim, Young-Gu Kim and Young-Do Jo</i>

15:25 – 15:55	AFTERNOON TEA Room: Building EA.G Foyer
15:55 – 16:40	Plenary 4 – Professor Chris Sorrell, University of New South Wales, Australia Title: Percolated Single-Crystal Mullite Fibres from Fly Ash: Vitreous Waste Material to High-Performance Refractory Chair: Dr Qinghua Zeng Room: EA.G.18(LT01)
16:40 – 17:25	Plenary 5 – Professor Junbin Gao, The University of Sydney, Australia Title: Clustering on Manifolds Chair: Dr M Rafiqul Islam Room: EA.G.18(LT01)
17:25 – 18:10	Plenary 6 – Dr M Rafiqul Islam, Charles Sturt University, Australia Title: Cumulative Timeline Analysis for Data Classification Chair: Professor Phill Kyu Rhee Room: EA.G.18(LT01)

Day 2 – Tuesday 21 November 2017

Time	Session
8:00 – 9:00	Registration Parramatta South Campus Room: Building EA.G Foyer
9:00 – 9:45	Plenary 7 – Professor Ashantha Goonetilleke, Queensland University of Technology, Australia Title: Management of Urban stormwater pollution: Progress and challenges Chair: Associate Professor Ataur Rahman Room: EA.G.18(LT01)
9:45 – 10:30	Plenary 8 - Professor Buddhima Indraratna, University of Wollongong, Australia Title: Ground Improvement for Transport Infrastructure Chair: Professor Chin Leo Room: EA.G.18(LT01)
10:30 – 11:00	MORNING TEA Room: Building EA.G Foyer
	Session 2E: Machine Learning and Data Engineering Chair: TBA Room: EA.G.27
11:00 – 11:20	Spoken Term Detection method using Suffix array and Bit-sequence Representation (iCMLDE05) <i>Satoru Tsuge and Kenji Kita</i>
11:20 – 11:40	Real-Time Panorama Image Stitching based on Multi-Threaded System (iCMLDE09) <i>Ahyun Lee and Insung Jang</i>
11:40 – 11:55	Teleoperated Robot Controlling Interface: an Internet of Things Based Approach (iCMLDE18) <i>M.S.Chowdhury and M.S. Parvez</i>
11:55 – 12:10	Wavelet Based Nonlinear Autoregressive Neural Network to Predict Daily Reservoir Inflow (iCMLDE19) <i>W.M.N. Dilini Basnayake, Dilhari Attygalle, Liwan Liyanage Hansen and K.D.W. Nandalal</i>
12:10 – 12:25	Dynamic Short Term Load Forecasting using Functional Principal Component Regression(iCMLDE20) <i>K.A.D. Deshani, Dilhari Attygalle, Liwan Liyanage and Lakraj Gamage Pemantha</i>
12:25 – 12:40	Domain Knowledge Driven Approach in Data Analytics (iCMLDE 16) <i>May Fern Koh, Yew Choong Chew and Thiam Ho Seck</i>
12:40 -13:40	LUNCH Room: Building EA.G Foyer
13:40 – 14:15	Plenary 9 - Professor Raman Singh, Monash University, Australia Title: Graphene Coating and Alloy Nanocrystallinity: Novel Nano Approaches for Remarkable Corrosion Resistance

	Chair: Associate Professor Sri Bandyopadhyay Room: EA.G.18(LT01)
14:15 -14:50	Plenary 10 - Professor Shams Rahman, RMIT University, Australia Title: Supply Chain Connectivity, Business Sustainability and Ethics Chair: Dr Mamta Chowdhury Room: EA.G.18(LT01)
	Session 3E: Machine Learning and Data Engineering Chair: Professor Baisakhi Chakraborty Room: EA.G.27
14:50 – 15:05	Query Optimization in Search Engines (iCMLDE03) <i>Baisakhi Chakraborty</i>
15:05 – 15:20	3D building reconstruction based on line detection algorithm (iCMLDE10) <i>Y. Xu</i>
15:20 – 15:35	MPU Based 6050 for 7bot Robot Arm Control Pose Algorithm (iCMLDE33) <i>Liu Qiang Qian, Zheng Wei Zhu and Cheng Liu</i>
15:35 – 15:50	A Survey on Cloud, Fog Computing and Internet of Things: An Architectural Viewpoint (iCMLDE23) <i>Mohammad Sanallah Chowdhury and Ata Ullah</i>
15:50 – 16:20	AFTERNOON TEA Room: Building EA.G Foyer
	Session 4E: Machine Learning and Data Engineering Chair: Professor Phill Kyu Rhee Room: EA.G.27
16:20 – 16:35	Automatic Ear Detection using Deep Learning (iCMLDE36) <i>Syed Mohammed Shamsul Islam</i>
16:35 – 16: 50	Automatic Damage Detection of the Containers Based on Hierarchical Image Analysis (iCMLDE21) <i>Youngjae Lim, Jang-Hee Yoo and Kiyoung Moon</i>
16:50 – 17:05	High Efficiency Facial Expression Recognition based Active Semi-Supervised Learning (iCMLDE 13) <i>Kim Jin Woo, Minhaz Uddin Ahmed, Rezaul Bashar and Phill Kyu Rhee</i>
17.05 – 17.20	The Optimization of Distributed SVM Based on KNN (iCMLDE12) <i>Zelong Li and Cheng Yang</i>
17.20 – 17.35	A Deep Learning based approach for Action Recognition (iCMLDE22) <i>Minhaz Uddin Ahmed, Kim Jin Woo, Miyoung Nam, Md Rezaul Bashar and Phill Kyu Rhee</i>
17.35 – 18.00	Discussion
19:00 – 21:30	CONFERENCE DINNER (Only for the CONFERENCE DINNER ticket holders)

Day 3 – Wednesday 22 November 2017

Time	Session
8:00 – 9:00	Registration Parramatta South Campus Room: Building EA.G Foyer
9:00 – 9:45	Plenary 11 – Professor Brian Uy, The University of Sydney, Australia Title: Australasian Structural Engineering Research in Steel and Composite Structures and its influence on International Design Codes Chair: Professor Zhong Tao Room: EA.G.18(LT01)
9:45 – 10:30	Plenary 12 - Professor Yinghe He, James Cook University, Australia Title: Development of innovative processes for the material recovery from spent rechargeable batteries Chair: Dr Qinghua Zeng Room: EA.G.18(LT01)
10:30 – 11:00	MORNING TEA Room: Building EA.G Foyer
	Session 5E: Machine Learning and Data Engineering Chair: Dr Syed Mohammed Shamsul Islam Room: EA.G.27
11:00 – 11:20	Information security training and awareness program: An investigation (iCMLDE34) <i>Roshan Dhakal, Rafiqul Islam and Champake Mendis</i>
11:20 – 11:40	Biometrics and data security: An investigation on security and privacy of biometric data in computing environment (iCMLDE32) <i>Roshan Dhakal</i>
11:40 – 11:55	Identification of susceptible websites from code injection attack (iCMLDE28) <i>Hussein Alnabulsi and Rafiqul Islam</i>
11:55 – 12:10	DSTU: A Deep Learning approach for Smart Traffic Updating System in GIS (iCMLDE36) <i>M U Ahmed, Abolghasem Sadeghi-Niaraki, Md Rezaul Bashar and Soo Mi Choi</i>
12:10 -12:40	Discussion
12:40 -13:40	LUNCH Room: Building EA.G Foyer
13:40 – 14:15	Plenary 13 - Professor Peter Coombes, Managing Director Urban Water Cycle Solutions , Sydney, Australia Title: Systems analysis of big data and macroeconomic history to reveal insights for water policy and markets Chair: Associate Professor Ataur Rahman Room: EA.G.18(LT01)
14:15 -14:30	CONFERENCE CLOSING SESSION Best Paper Award Room: EA.G.18(LT01)