



**WESTERN SYDNEY
UNIVERSITY**



**International Conference on Construction Project Management and
Construction Engineering (iCCPMCE-2018), Sydney, Australia**

3rd GCSTMR CONGRESS

**Venue: Western Sydney University, Building EA and EB, 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 03 Dec 2018

Time	Session	
08:30 – 09:30	Registration Parramatta South Campus; Building EB, Room: EB.G.02	
09:30 – 10:00	Conference Opening Building EA, Parramatta South Campus; Room: EA.G.18 (LT01)	
10:00 – 10:30	Plenary 1 – Professor Kerry London , Deputy Dean, School of Computing, Engineering and Mathematics, Western Sydney University, Australia Title: Future Challenges of Built Environment and Design Education in NSW and Beyond Chair: Associate Professor Swapan Saha, Room: EA.G.18 (LT01)	
10:35 – 11:05	Plenary 2 – Mr Sabur Khan , Chairman and Founder, Daffodil International University, Bangladesh Title: Private University Sector in Indian Sub-Continent: Success Story of Daffodil International University Chair: Associate Professor Ataur Rahman, Room: EA.G.18 (LT01)	
11:05 – 11:35	MORNING TEA Room: Building EB.G.02	
11:35 – 12:05	Plenary 3 – Professor Vivian Tam , School of Computing, Engineering and Mathematics, Western Sydney University, Australia Title: CO2 Concrete using Optimal Mix Design Chair: Dr Payam Rahnamayiezekavat, Room: EA.G.18 (LT01)	
12:05 – 12:35	Plenary 4 – Professor Firoz Alam , RMIT University, Australia Title: An Innovated Three-Step Teaching and Learning Approach for Laboratory Experiments of Thermal Fluids Courses Chair: Associate Professor Fidelis Mashiri, Room: EA.G.18 (LT01)	
12:35 – 13:20	LUNCH Room: Building EB.G.02	
13:20 – 13:50	Plenary 5 – Professor Simon Barrie , Pro Vice Chancellor, Western Sydney University, Australia Title: New developments and challenges in tertiary education: An Australian perspective Chair: Associate Professor Ataur Rahman, Room: EA.G.18 (LT01)	
13:50-14:20	Plenary 6 - Associate Professor Oliver Obst , Director of Research, Quality, and Innovation, School of Computing, Engineering and Mathematics, Western Sydney University, Australia Title: Learning recurrent neural network architectures Chair: Professor Chin Leo, Room: EA.G.18 (LT01)	
14:20-14:50	Plenary 7A - Professor Richard (Chunhui) Yang , Lead Director of Academic Program (Engineering and ID), School of Computing, Engineering and Mathematics, Western Sydney University, Australia Title: Engineering Education at WSU: Past, Present and Future Chair: Associate Professor Ataur Rahman, Room: EA.G.18 (LT01)	
14:50-15:30	Doctoral Consortium Facilitator: Associate Professor Ataur Rahman Room: EB.G.22	Workshop on Construction Innovation Facilitator: Professor Vivian Tam Room: EB.G.33

15:30 – 16:00	Afternoon Tea Room: Building EB.G.02	
16:00 – 17:50	Doctoral Consortium Facilitator: Associate Professor Ataur Rahman Room: EB.G.22	Workshop on Construction Innovation Facilitator: Professor Vivian Tam Room: EB.G.33
17:50-18:20	Plenary 7B – Prof (Sathaa) A Sathasivan , School of Computing, Engineering and Mathematics, Western Sydney University, Australia Title: Sydney Zoo - An experimental learning platform for sustainable water management Room: EA.G.18 (LT01)	

Day 2 – Tuesday 4 Dec 2018

Time	Session
08:00 – 09:00	Registration Parramatta South Campus Room: Building EB.G.02
09:00 – 09:35	Plenary 8 – Associate Professor Mei-Yung Leung , City University of Hong Kong, Hong Kong Title: Facilities Management Guideline for Elderly in the Care and Attention Homes Chair: Professor Vivian Tam Room: EA.G.18 (LT01)
09:40 – 11:00	iCCPMCE 2018: Technical Session 1A - Chair: Dr Robert Osei-Kyei Room: EA.G.18 (LT01)
09:40-10:00	Invited Talk: Responding to Climate Change – The Next Steps Helen Burnie, Blacktown City Council
10:00-10:15	Revolutionizing Urban Energy Planning: A Roadmap towards City-Level Energy Modelling in Australia Ruidong Chang, Qiancheng Wang and Zijian Ding
10:15-10:30	Identifying the Gaps Between On-Site Personnel’s Awareness and Activities on Green Construction in China Jingyang Zhou and Vivian Tam
10:30-10:45	Facilitating Energy Transition of Existing Buildings — Examining China’s Regional Policies Ruidong Chang, Qiancheng Wang and Rui Xue
10:45-11:00	The impact of Policy-related Factors on the Economic Performance of Distributed Building Photovoltaic Systems across China Hongying Zhao, Rebecca Yang, Trivess Moore and Chengyang Liu
11:00-11:30	Morning Tea Room: Building EB.G.02
11:30 -13:00	iCCPMCE 2018: Technical Session 1B - Chair: Dr Whitney Bevan Room: EA.G.18 (LT01)
11:30 -11:50	Invited Talk: Building Information Modelling (BIM) for Construction Waste Management (CWM): Myth and Reality Wilson Lu, The University of Hong Kong

11:50 -12:05	Towards Low Carbon Footprint: A Case Study of Sydney, Australia Hoda Karimipour, Vivian Tam, Helen Burnie and Khoa Le
12:05 -12:20	Examination on the Sectoral Carbon Emission Abatement Potential in China: A Case Study of Chongqing Mengcheng Zhu, Vivian W. Y. Tam., Ya Wu, Linyin Shen and Qingqing Wang
12:20 -12:35	Solutions for Barriers Against the Wider Use of Recycled Aggregate Vivian Tam, Farid Sartipi, Mahfooz Soomro and Anthony Butera
12:35 -13:20	Lunch Room: Building EB.G.02
13:20-13:50	Plenary 9 – Professor Wanlei Zhou, University of Technology Sydney, Australia Title: Preserving privacy in the digital age: Differential privacy and its applications Chair: Associate Professor Rafiqul Islam Room: EA.G.18 (LT01)
13:50 -15:10	iCCPMCE 2018: Technical Session 1C - Chair: Dr Ali Al-Ashwal Room: EA.G.18 (LT01)
13:50 -14:05	Invited Talk: Automation for sustainability in construction via Life Cycle Sustainability Assessment and Building Information Modelling Assed Haddad, Federal University of Rio de Janeiro
14:05 -14:20	Life-Cycle Assessment of Buildings, the Pathway to Achieve Sustainable Development Goals: A Review Cuong Tran, Vivian Tam and Khoa Le
14:20 -14:35	Sustainable Construction Project Decision-Support Tools: Integration of Life Cycle Sustainability Assessment and Multi-Criteria Decision Making Karoline Figueiredo, Ahmed Hammad, Assed Haddad, Vivian Tam and Ana Evangelista
14:35 -14:50	Parametric Analysis to Improve Energy Performance of Construction Projects Mohammad Najjar, Ahmed W A Hammad, Vivian W Y Tam, Ana Catarina Jorge Evangelista and Assed Haddad
14:50 -15:05	A Critical Review of the Life Cycle Assessment of Roads – Some Preliminary Findings Rui Jiang and Peng Wu
15:05 -15:25	Invited Talk: Digital Asset Information Management for Effective Decision Making in the Lifecycle of Roads Peng Wu, Curtin University
15:25 -15:55	Afternoon Tea Room: Building EB.G.02
	iCCPMCE 2018: Technical Session 1D - Chair: Dr Sameera Pathirana Room: EA.G.18 (LT01)
15:55 -16:30	Review Of BIM Study In Infrastructure Constructability Vivian Tam, Kiran Kc and Khoa Le
16:30 -16:45	Cost Estimation Software for Private Residences in the State of Kuwait Alia Esmael
16:45 -17:00	The 3D Laser Scanning Technology Application within Construction Industry Fernando Guidini, Jorge Santos, Assed Haddad, Vivian Tam and Ana Evangelista

17:00-17:15	Developing Optimal Scaffolding Erection through VSM in Turnaround Maintenance Peng Wang, Peng Wu and Xiangyu Wang
17:15-17:30	Evaluation of Prefabrication Market in Australia Vivian Tam, Ana Evangelista, Rui Zhang and Huanyu Wu
17:30-17:45	Pre-fabricated Concrete System Analysis Applied to Social Housing Lucas Gonçalves de Moura Jorge, Ahmed W A Hammad and Assed Naked Haddad
19:30 – 21:30	CONFERENCE DINNER (Only for the CONFERENCE DINNER ticket holders)

Day 3 – Wednesday 5 Dec 2018

Time	Session
8:00 – 9:00	Registration Parramatta South Campus Room: Building EB.G.02
9:00 – 9:35	Plenary 10 – Associate Professor Girija Chetty, University of Canberra, Australia Title: Multimodal Medical Image Analysis Based on Machine Learning Techniques Chair: Dr Vojislav Ilic Room: EA.G.18 (LT01)
9:35 – 10:10	Plenary 11- Dr Rafiqul Islam, CEO, Solar-e-Technology, Sydney, Australia Title: Engineering Education in the perspective of People, Society and Sustainability Chair: Dr Sasha Alexander Room: EA.G.18 (LT01)
10:10 – 10:45	MORNING TEA Room: Building EB.G.02
10:45 – 12:30	iCCPMCE 2018: Technical Session 1F - Chair: Dr Sepani Senaratne Room: EA.G.18 (LT01) (parallel session)
10:45-11:00	Age Differences in Mechanism of Safety Behaviours for Construction Workers – Based on TPB Xiaoli Gong, Qingting Xiang, Gui Ye and Yuan Fu
11:00-11:15	The Inclusion of Health and Safety (H&S) Preliminaries in Contract Documentation John Smallwood
11:15-11:30	The Role of Construction Project Managers (CPMS) in Construction Health and Safety (H&S) John Smallwood
11:30-11:45	Construction Safety Leadership: A Complexity Perspective John Ojuola, Sherif Mostafa and Sherif Mohamed
11:45-12:00	Strategies for Reducing Psychosocial Risks of Construction Workers Carol K.H. Hon and Mitchell Hayne

12:00-12:15	Resilient Safety Culture: A Modelling Perspective Arun Garg and Sherif Mohamed
12:15-12:30	Modelling Hospitals Functional Performance Using MICMAC Analysis: A Resilience Perspective Farhad Mahmoudi and Sherif Mohamed
12:30 -13:15	Lunch Room: Building EB.G.02
13:15-13.45	Plenary 12 – Associate Professor Ali Adel Al-Jumaily , University of Technology, Sydney Title: Real life challenges application for computational intelligence in biomedical applications Chair: Dr Rezaul Bashar Room: EA.G.18 (LT01)
10:45 –12:30	iCCPMCE 2018: Technical Session 1E - Chair: Dr Yingbin Feng Room: EB.G.02 (parallel session)
10:45-11:00	Exploring the Relationship between Stakeholder Characteristics and Project Performance Tuan Son Nguyen and Sherif Mohamed
11:00-11:15	Practices Applied to The Execution and Control of the Quality of Foundations in Building Work Rodrigo Jesus, Jorge Santos and Ana Catarina Evangelista
11:15-11:30	Causes of Dispute in Sri Lankan Construction Industry: Perspective of Different Parties to the Contract Chethana Illankoon, Vivian Tam, Khoa Le and Kato Randadewa
11:30-11:45	Factor Analysis of the causes of conflict in Public-Private Partnership infrastructure projects in Ghana Robert Osei-Kyei, Albert Chan and Xiaohua Jin
11:45-12:00	A Critical Literature Review on Bidding Collusion in the Construction Industry Diqi Zheng, Wenhui Zhu and Kunhui Ye
12:00-12:15	Time Bar Provisions in Dubai: A Critical Study of Its Interpretations Under UAE Civil Code Sehan Wickramasinghe and Femi Ilesanmi
12:15-12:30	Impact of Declining Oil Prices on Construction Project Costs in Kuwait Hashem Altabtabai and Ehab Soliyman
12:30 -13:15	Lunch Room: Building EB.G.02
13:45 –15:30	iCCPMCE 2018: Technical Session 1G – Chair: Dr Sean Jin Room: EA.G.18 (LT01) (parallel session)
13:45-14:00	Mechanical Properties of Fly Ash/GGBFS Based Geopolymer Concrete Incorporating Recycled Aggregates Zhuo Tang, Wengui Li, Vivian Tam and Peiran Li
14:00-14:15	Electrical Conductivity of Cement Paste Containing Conductive Rubbers Wenkui Dong, Wengui Li, Caihong Xue and Kejin Wang
14:15-14:30	Investigation of the effects of Carbon-Conditioning on Drying Shrinkage of Recycled Aggregate Concrete Vivian Tam, Anthony Butera and Khoa Le
14:30-14:45	A Study of the Use of Artificial Neural Networks in Modelling Compressive Strength of Recycled Aggregate Concrete Vivian Tam, Luis Da Silva, Ana Evangelista, Anthony Butera and Cm Tam

14:45-15:00	Interaction of Solar Radiation and Natural Convection In Low-e Glass Double-Skin Façade Long Shi, Guomin Zhang and Sujeeva Setunge
15:00-15:15	
15:15-15:30	
13:45 –15:30	iCCPMCE 2018: Technical Session 1H - Chair: A/Prof Marry Hardie Room: EB.G.02 (parallel session)
13:45-14:00	The Diversity of CSR Practices in Various International Construction Markets Meng Ye and Weisheng Lu
14:00-14:15	Urban NGOs as Niche Actors in Informal Settlement Upgrading and Construction Anna Zetkulic
14:15-14:30	Different Grades and Different Green Premiums: A Cross Sectional Analysis of a Green Certification Scheme Jayantha Wadu Mesthrige, Arshad Javed and Timo Oladinrin Olugbenga
14:30-14:45	Occupant Behaviour in Green Buildings – A Case Study Vivian Tam, Laura Almeida and Khoa Le
14:45-15:00	Predicting Realistic Inspection Rate in Construction Swapan Saha and Payam Rahnamayiezekavat
15:00-15:15	
15:15-15:30	
15:35 -15:45	CONFERENCE CLOSING SESSION Best Paper Award Room: EA.G.18 (LT01)