

Schedule Overview

Time	Mon 02/09	Tue 03/09	Wed 04/09	
09:00		Opening and welcome 09:00-09:10	Keynote III 09:00-09:40	
09:30		Keynote I 09:10-09:50		
10:00		Break 09:50-10:00	Break 09:40-10:00	
12:00		Session 1-A 10:00-12:00	Session 2-A 10:00-12:00	
12:30		Lunch 12:00-13:10	Lunch 12:00-13:00	
13:00				
13:30		Keynote II 13:10-13:50	EPPM-Academy workshop 13:00-14:00	
14:00		Break 13:50-14:00		
15:00		Session 1-B 14:00-15:30	Break 14:00-14:15	
15:30			Session 2-B 14:15-15:45	
16:00		Break 15:30-15:45	Break 15:45-16:00	
17:00		Session 1-C 15:45-17:15		
17:30		Sign-in 18:30-19:00	Gala dinner 19:00-21:00	Business meeting 17:00-18:00
18:00				
18:30				
19:00		Reception party 19:00-21:00		
21:00				



2 September 2019

- 19:00-21:00
- Reception party

3 September 2019

- 09:00-09:10
- Opening and welcome
- Chair: Joanicjusz Nazarko

- 09:10-09:50
- Keynote I
- Chair: Kriengsak Panuwatwanich

Title	Keynote speaker
Smart Cities & Intelligent Buildings - From today's Challenges to tomorrow's Opportunities	Abdul Samad (Sami) Kazi

- 09:50-10:00
- Break

- 10:00-12:00
- Session 1-A
- Chairs: Sherif Mohamed and Emiliya Suprun

18	Evaluating the Sustainability of Land Development Projects
	Wen-Der Yu, Wei-Cheng Ho, Shao-Tsai Cheng, and Hsien-Kuan Chang
41	Practices of Sustainable Development in Higher Education Institutions: Case Study of Al-Zaytoonah University of Jordan
	Subhi M. Bazlamit, Turki Al-Suleiman (Obaidat), Hesham S. Ahmad
44	The adoption of building environmental performance assessment methods in the UAE built environment
	Amna Shibeika, Batoul Hittini, and Tasneem Abdel Raheem
51	Sustainable performance in the earthworks sub sector: exploring the machinery selection framework in New Zealand
	Ryan Davenport and James Olabode Rotimi
127	Comparative Analysis of Methodologies for Calculating the Economic Life of Construction Equipment

	Ilias Ladopoulos, Kleopatra Petroutsatou, and Serafeim Polyzos
140	Costs and Benefits of Green Retrofits: A Case of Industrial Manufacturing Buildings in Sri Lanka
	Achini Shanika Weerasinghe and Thanuja Ramachandra
99	Minimizing Emissions and Cost through Reducing Equipment Idle Time in Concreting Operations
	Nur Kamaliah Mustaffa and Mohd Feisal Hafiz Abdul Aziz
64	Outcomes of Current Project Management Practices in South Africa
	Thabiso Godfrey Monyane, Fidelis A. Emuze, Bankole Awuzie, and Gerrit Crafford
136	The effect of Perceived Safety on User Behaviour in the Holy Mosque
	Kassim Gidado and Mohammed Alkhadim
60	Safety Leadership Functions Using Complexity Science
	John Ojuola, Sherif Mostafa, and Sherif Mohamed
75	Analysing the Resilience of Hospitals' Surge Procedures using Functional Resonance Analysis Method
	Farhad Mahmoudi, Sherif Mohamed and Fahim Tonmoy
55	Evaluating a Collaborative Cost Management Framework with Lean Construction Experts
	Godfrey Monyane, Fidelis Emuze, Bankole Awuzie, and Gerrit Crafford

- 12:00-13:10
- Lunch

- 13:10-13:50
- Keynote II
- Chair: Bo Terje Kalsaas
- Keynote speaker: Timo Hartmann

- 13:50-14:00
- Break

- 14:00-15:30
- Session 1-B
- Chairs: Hesham Ahmad and Maha Ayoush



131	Interactive effects of agile response-to-change and project complexity on project performance
	Tuan Son Nguyen and Sherif Mohamed
105	Lessons learned from managing the design process of a large and complex construction project seen in a lean construction perspective
	Bo Terje Kalsaas, Anders Rullestad, and Hanne Thorud
10	Comparative evaluation of learning curve models for construction productivity analysis
	Panagiota Ralli, Antonios Panas, John-Paris Pantouvakis, and Dimitrios Karagiannakidis
11	Investigation of the Earned Value Method (EVM) applicability for construction operations affected by the learning phenomenon
	Christos Stasinou, Antonios Panas, John-Paris Pantouvakis, Panagiota Ralli, and Dimitrios Karagiannakidis
73	Using Analytic Hierarchy Process to Evaluate Implementation Barriers of Agile Project Management in Australian Project Environments
	Jantane Dumrak, Sherif Mostafa, and Nick Hadjinicolaou
74	Investigating the Association between Project Portfolio Management Office Functions and Project Success: An Australian Case Study
	Nick Hadjinicolaou, Jantane Dumrak, and Sherif Mostafa
130	Feedback Loop – The Missing Link in Activity Analysis
	Hasse H. Neve, Søren Wandahl, and Jon Lerche
137	Realization of benefits from Best Value Approach by proper utilization of expertise in infrastructure projects
	Lashand Sivathasan Nadarajah, Magnus Mikael Hellström, and Gøril Hannås
139	Adaptation of Risk Sharing Partnerships to New Industries
	Theodor Kvæven Halvorsen, Gøril Hannås, and Magnus Mikael Hellström

 15:30-15:45

 Break

 15:45-17:15

 Session 1-C

 Chairs: John Smallwood and Kassim Gidado

37	A New Project Scheduling Control Method based on Activity Quantities
	Hsien-Kuan Chang, Wen-Der Yu, and Tao-Ming Cheng
46	Application of Robotic Technology for the Advancement of Construction Industry in SriLanka: A Review
	K.G.A.S.Waidyasekara, Madhawa Gamlath, and Sonali Pandithawatta

52	Integrating Lifecycle Thinking in Asset Management Through BIM: Opportunities for the Water Sector
	Emiliya Suprun, Rodney Stewart, Sherif Mostafa, Oz Sahin, and Edoardo Bertone
54	Information systems supporting the optimization of the prefabrication process in the construction industry - case study of a steel plant
	Krystyna Araszkiwicz, Aleksander Szerner, and Michal Wrochna
67	Immersive Virtual Reality Environment for Construction Detailing Education using Building Information Modeling (BIM)
	Maha ElGewely and Wafaa Nadim
78	The Support of Continuous Information Flow through Building Information Modelling (BIM)
	Alireza Ahankoob, Behzad Abbasnejad, and Peter S.P. Wong
103	Improving Formwork Design Using Lean Thinking
	Chien-Ho Ko
120	Investigating the Use of Electronic Documents in the Jordanian Construction Projects
	Hesham S. Ahmad, Maha Ayoush, and Abeer Elhour
128	Extracting Construction Knowledge from Project Schedules using Natural Language Processing
	Xiaojing Zhao, Justin Yeoh, and David Chua

- 19:00-21:00
- Gala dinner

4 September 2019

- 09:00-09:40
- Keynote III
- Chair: Chawalit Jeenanunta

Title	Keynote speaker
The role of simulation in industry 4.0 transition	Masahiro Nakamura

- 09:40-10:00
- Break

- 10:00-12:00
- Session 2-A
- Chairs: Turki Al-Suleiman (Obaidat) and Subhi Bazlamit

20	A Child Knee Orthosis Design and Simulation based on Dynamic Considerations
	Cristian Copilusi, Nicolae Dumitru, Alexandru Margine, Adrian Rosca, and Eugen Rosu
36	Kinematics and design of a leg exoskeleton for human motion assistance
	Ionut Geonea, Nicolae Dumitru, Cristian Copilusi , Alexandru Margine, and Laurentiu Racila
58	Influence of hot-dip galvanizing on mechanical properties of pressure-locked gratings
	Paweł Krupicz
84	Additive manufacturing for cost efficient hybrid welding jigs
	Achim Kampker, Georg Bergweiler, Ansgar Hollah, Kolja Lichtenthäler, and Sebastian Leimbrink
86	An investigative study on production of a composite novel plant fibre: Mechanical properties comparison
	Olehile Kaelo and Vuyo T. Hashe
133	Combining takt and Deming cycles at operator level – practical study
	Jon Lerche, Hasse Neve, Søren Wandahl, and Allan Gross
143	State-of-the-art in Product-Service System Design
	Mariusz Salwin (Warsaw University of Technology)*; Andrzej Kraslawski (Lappeenranta University of Technology); Jan Lipiak (Warsaw University of Technology)
144	A System Dynamics Model of Multimodal Transportation of Rubber Products in Thailand
	Thanwadee Chinda, Chinakrit Tangkunapipat, Pichaporn Tirakothai, Nawisa Matchacham, Natthanan Siriphattanakulkajorn, and Katawut Noinonthong
66	Lean Industry 4.0 – wastes versus technology framework
	Krzysztof Ejsmont and Bartłomiej Gładysz
104	Bridging Strategic Project Planning with Operative Planning in the Design Process
	Kai Haakon Kristensen and Bo Terje Kalsaas
50	Prefabrication and Waste Minimisation in Construction Projects: Perspectives from New Zealand
	Olivia Luo and Wajiha Shahzad

 12:00-13:00

 Lunch

 13:00-14:00

 EPPM-Academy workshop

 Chair: Chawalit Jeenanunta

14:00-14:15
Break

14:15-15:45
Session 2-B
Chairs: Katarzyna Kuzmicz and Lukasz Nazarko

12	Construction Project Manager (CPM) Contributions to Construction Health and Safety (H&S)
	John Smallwood
13	The Role of Procurement in Construction Health and Safety
	John Smallwood and Claire Deacon
122	Improving collaboration in construction projects in developing countries: the case of Kurdistan region of Iraq
	Hazhar Faris, David Hutchinson, and Mark Gaterell
106	Comparing analysis of mega road construction projects in term of innovation
	Bo Terje Kalsaas
16	Applying Mixed Methods Sequential Explanatory Design to Innovation Management
	Warit Wipulanusat, Kriengsak Panuwatwanich, Rodney Stewart, and Jirapon Sunkpho
82	Application of reliability engineering in a chemical plant to improve productivity
	Vuyo T. Hashe and Makgomo Thelma Mamatlepa
100	Major Influencing Factors of Decision about Alternative Technical Means in Selected Aviation Services
	Eugeniusz Piechoczek and Andrzej Hawryluk
114	A Hedonic Model for Off-Campus Student Housing around Thammasat University - Rangsit Campus, Thailand
	Suthathip Suanmali, Thidaporn Anantasa, Sukolrat Bovornsantisuth, and Suchawadee Diloklap
115	The optimal initial buffer and cycle time design for improving lean production automation line efficiency
	Duong Vu Xuan Quynh and Chawalit Jeenanunta

15:45-16:00
Break



- 16:00-17:00
- Session 2-C
- Chair: Kriengsak Panuwatwanich

X1	BIM Prototype System Creating for the Optimization of Integrated Construction Processes in the Technology of Extended Reality
	Leonas Ustinovichius and Czesław Miedziałowski
X2	Forecasting environmentally friendly economic growth with DEA
	Joanicjusz Nazarko and Ewa Chodakowska
X3	A Hybrid Approach in Future-Oriented Technology Assessment
	Ewa Chodakowska and Joanicjusz Nazarko
X4	Increasing Container Transshipment Terminal Effectiveness and Sustainability by Application of Unmanned Vehicles (UVs)
	Katarzyna Anna Kuzmich
68	Proposed Risk Management Decision Support Methodology for Oil and Gas Construction Projects
	Mohammed K. Al Mhdawi and Ibrahim Motawa
70	Assessment of Risk Management Practices in Construction Industry
	Mohammed K. Al Mhdawi, Ibrahim Motawa, and Hatem A. Rasheed
129	How Sustainability in Healthcare Sector Challenges Guidelines and Code Development: A Framework for Design of Sustainable Hospital Buildings
	Zeeshan Ullah

- 17:00-18:00
- Business meeting
- Chairs: Joanicjusz Nazarko and Chien-Ho Ko