



# PROGRAM OVERVIEW

## October, 28, 2017 (Saturday)

07:00 ~ 08:00	<i>Breakfast</i>	1F Western Restaurant
08:00 ~ 21:30	Registration for the 7th ICCEPM	CYNN Hotel Lobby
16:30 ~ 18:00	Poster Session & Reception	Hallway, 2F, CYNN Hotel
18:00 ~ 21:30	<i>Welcome Dinner for All Delegates</i>	Meigui Hall

## October, 29, 2017 (Sunday)

07:00 ~ 08:00	<i>Breakfast</i>	1F Western Restaurant
08:00 ~ 08:20	General Assembly - Opening speech by Vice President of Sichuan University - Welcome speech by KICEM president - ICCEPM chronicles introduction by IPC chair	Studio Hall, NO.5 Teaching Building of the West in Sichuan University
08:20 ~ 08:55	<b>Keynote: National Strategy, Industry leading, Sustainable Development</b> <i>Wenyong Huo, General Manager, China Architecture Design &amp; Research Group</i>	
08:55 ~ 09:30	<b>Keynote: From DBA to Soundscape Indices: Managing Our Sound Environment</b> <i>Jian Kang, University of Maryland</i>	
09:30 ~ 10:05	<b>Keynote: The Risk Management of Sichuan-Tibet highway Bridge and Tunnel</b> <i>Hanbin Luo, Huazhong University of Science and Technology</i>	
10:05 ~ 10:35	<i>Refreshment Break</i>	
10:35 ~ 11:10	<b>Keynote: Fatigue Prediction Model Based on Computer Vision and Pressure Sensors</b> <i>Heng Li, The Hong Kong Polytechnic University</i>	
11:10 ~ 11:45	<b>Keynote: The New Competitiveness Paradigm in International Construction</b> <i>Roger Flanagan, University of Reading</i>	
11:45 ~ 12:15	<b>Keynote: Investigation and Thinking on Earthquake Damage in Jiuzhaigou Earthquake, August 8, 2017</b> <i>Feng Xiong, Sichuan University</i>	
12:30 ~ 13:30	<i>Lunch for All Delegates</i>	2F Beiyuan Restaurant
13:30 ~ 19:30	<i>Visit Dujiangyan Water Conservancy Project (All Delegates)</i> <i>Dinner for All Delegates at Dujiangyan</i>	Bus Leaves Outside Beiyuan Restaurant

## October, 30, 2017 (Monday)

07:00 ~ 08:30	<i>Breakfast</i>			1F Western Restaurant
08:30 ~ 09:05	<b>Keynote: Advanced CEM Techniques to Modernize Traditional Buildings: Issues and Propositions for Asian Standards Making</b> <i>Youngsoo Jung, Myongji University</i>			
09:05 ~ 09:40	<b>Keynote: Intelligent Planning Units (IPUs) for Sustainable Design</b> <i>Makarand Hastak, Purdue University</i>			
09:40 ~ 10:10	<i>Refreshment Break</i>			
10:10 ~ 10:45	<b>Keynote: Adaptive and Responsive Built Environments</b> <i>Burcin Becerik, University of Southern California</i>			
10:45 ~ 11:20	<b>Keynote: “When West Meets East in Elsewhere”: Chinese Ways of Corporate Social Responsibility(CSR) in International Construction - Commonalities, Idiosyncrasies, and Drawbacks</b> <i>Wilson Lu, The University of Hong Kong</i>			
11:20 ~ 11:55	<b>Keynote: Smart and Connected Construction Job Sites with Sensing and Visualization Technologies</b> <i>Yong Kwon Cho, Georgia Institute of Technology</i>			
12:00 ~ 13:00	<i>IPC Luncheon and Committee Meeting</i>			Mudan Hall
	<i>Lunch for All Delegates</i>			Furong Hall
13:00 ~ 17:45	<i>Parallel Session</i>			
	Room: Mudan Hall	Room: Multifunction Hall	Room: Moli Hall	Room: Furong Hall
13:00 ~ 14:20	<b>Session I - A</b> <b>(Chair: Chuan Chen)</b> <b>Subject: Sustainable Development</b>	<b>Session II - A</b> <b>(Chair: Jack Cheng)</b> <b>Subject: Project Management</b>	<b>Session III- A</b> <b>(Chair: Fei Dai)</b> <b>Subject: Civil Engineering Construction and Management II</b>	<b>Session IV-A</b> <b>(Chair: Na Dong)</b> <b>Subject: BIM &amp; Construction Management</b>
14:20 ~ 14:40	<i>Refreshment Break</i>			
14:40 ~ 15:55	<b>Session I – B</b> <b>(Chair: Huabo Duan)</b> <b>Subject: Sustainable Development</b>	<b>Session II - B</b> <b>(Chair: Huige Xing )</b> <b>Subject: Infrastructure Engineering and Management</b>	<b>Session III- B</b> <b>(Chair: Ruwen Tan)</b> <b>Subject: New Technology and Tests</b>	<b>Session IV- B</b> <b>(Chair: Hongling Guo)</b> <b>Subject: BIM &amp; Construction Management</b>
15:55 ~ 16:15	<i>Refreshment Break</i>			
16:15 ~ 17:45	<b>Session I – C</b> <b>(Chair: Wei Zhang)</b> <b>Subject: Sustainable Development</b>	<b>Session II - C</b> <b>(Chair: Dingfeng Yuan)</b> <b>Subject: Civil Engineering Construction and management I</b>	<b>Session III- C</b> <b>(Chair: Xia Wang)</b> <b>Subject: Higher Education and Construction Case Study</b>	<b>Session IV- C</b> <b>(Chair: Bingchen Li )</b> <b>Subject: BIM &amp; Construction Management</b>
18:00 ~ 21:30	<i>Banquet, Award, and Closing</i>		Huangchenglaoma Hotpot Restaurant Bus Leaves at 18:00 from CYNN Hotel	

## October, 31, 2017 (Tuesday)

07:00 ~ 08:00	<i>Breakfast</i>	1F Western Restaurant
08:00 ~ 17:00	<i>Technical Visit to Typical Project of Post Disaster Reconstruction</i>	Bus Leaves at 7:15 from CYNN Hotel
17:30 ~ 18:30	<i>Dinner for All Delegates at Chengdu</i>	



# PARALLEL SESSIONS

## Session I-A: Sustainable Development 13:00~14:20 On Oct 30, 2017

**Session Chair: Chuan Chen**

**Room: Mudan Hall**

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|------|---------------|---|--|
| #203 | 13:00 ~ 13:15 | What will the construction industry be if PPP is widely applied?  | <i>Kunhui Ye</i>   |
| #202 | 13:15 ~ 13:30 | An Investigation of the Design and Implementation of Sustainable Urban Solid Waste Management Innovations in Bengaluru, India | <i>Xuehua Zhang</i>  |
| #209 | 13:30 ~ 13:45 | Architecture and Human, Energy and Health   | <i>Liang Xia</i>   |
| #50  | 13:45 ~ 14:00 | Profession and Strategy of BIM Managers in Japan  | <i>Takashi Kaneta</i>  |
| #99  | 14:00 ~ 14:20 | Design Practice for a Prefabricated Resort Hotel in Hendurabi Island  | <i>Behnam Mahdoudi, Samad Sepasgozar, Farnaz Hajivandi and Isa Hojat</i> |

## Session I-B: Sustainable Development 14:40 ~ 15:55 On Oct 30, 2017

**Session Chair: Huabo Duan**

***Room: Mudan Hall***

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|-------------|---------------|--|--|
| <b>#118</b> | 14:40 ~ 14:55 | LCA-based Environmental Performance Assessment from Building Scale to Urban Scale  | <i>Li, Xiaodong</i>  |
| <b>#228</b> | 14:55 ~ 15:10 | Exploration on an Alternative Approach in Project Construction Management and Organization in Underdeveloped Regions: A Study Case on the Ge-sa Village Tree House Project in the Lugu Lake Area | <i>Chunlan Zhao</i>  |
| <b>#48</b>  | 15:10 ~ 15:25 | Suggestion for Sustainable Development of Korean Traditional Wooden Structure (Hanok)  | <i>Nuri Seo, Yunsub Lee,<br/>Zhenhui Jin and Youngsoo Jung</i> |
| <b>#18</b>  | 15:25 ~ 15:40 | Knowledge Domain and Emerging Trends of Intelligent Green Building and Smart City – A Visual Analysis Using CiteSpace  | <i>Hongyang Li and Mingjie Dai</i>                             |
| <b>#96</b>  | 15:40 ~ 15:55 | Automatic Indoor Progress Monitoring Using BIM and Computer Vision   | <i>Yichuan Deng, Hao Hong,<br/>Han Luo and Hui Deng</i>        |

**Session I-C: Sustainable Development**  
**16:15 ~ 17:45 On Oct 30, 2017**

**Session Chair: Wei Zhang**

***Room: Mudan Hall***

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|-------------|---------------|--|---|
| <b>#14</b>  | 16:15 ~ 16:30 | Developing a BIM-Based Methodology Framework for Sustainability Analysis of Low Carbon High-Rise Buildings         | <i>Vincent J.L. Gan, Nan Li, K.T. Tse, C.M. Chan, Irene M.C. Lo and Jack C.P. Cheng</i>     |
| <b>#232</b> | 16:30 ~ 16:45 | Optimizing Urban Construction and Demolition Waste Management System Based on 4D-GIS and Internet Plus             | <i>Huabo Duan</i>   |
| <b>#29</b>  | 16:45 ~ 17:00 | A Study on Rapid BIM Modeling of Temporary Works for Improving Works Processes                                     | <i>Soo-Ho Yoon, Chang-Hoon Choi and Junbok Lee</i>  |
| <b>#201</b> | 17:00 ~ 17:15 | Science-based Decision Making for Sustainable Urban Development.   | <i>Ya Tang</i>  |
| <b>#19</b>  | 17:15 ~ 17:30 | A BIM-Based Framework for Evaluating Evacuation Plans on Offshore Oil and Gas Platforms Using Agent-Based Modeling | <i>Yi Tan, Yongze Song, Vincent J.L. Gan, Zhongya Mei, Xiangyu Wang and Jack C.P. Cheng</i> |
| <b>#22</b>  | 17:30 ~ 17:45 | A BIM-based Automated Planning Framework for Formwork on Construction Sites  | <i>Maozeng Xu, Zhongya Mei and Yi Tan</i>   |

**Session II-A: Project Management**  
**13:00 ~ 14:20 On Oct 30, 2017**

**Session Chair: Jack Cheng**

***Room: The Multi-function Hall***

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|-------------|---------------|--|---|
| <b>#115</b> | 13:00 ~ 13:15 | Rethink the fundamentals of Project Management in the context of urban renewal   | <i>Guiwen Liu</i>   |
| <b>#52</b>  | 13:15 ~ 13:30 | Development of a Simulation Model for Housing Market Policy Considering Demand-Supply Shift between Sales and Rental Market            | <i>In-Seok Yoon, Hyun-Soo Lee, Moonseo Park, Seulbi Lee and Byung-Ki Kwon</i> |
| <b>#34</b>  | 13:30 ~ 13:45 | Housing Policy for Low-income Households (Ger Areas) in Mongolia: Based on Generic Characteristic of Developing Countries              | <i>Saruul Ishdorj, Hyun-Soo Lee and Moonseo Park</i>                          |
| <b>#13</b>  | 13:45 ~ 14:00 | Methodology of Developing Standard Schedule Activities for Nuclear Power Plant Construction through Probabilistic Consistency Analysis | <i>Woojoong Kim</i>   |
| <b>#70</b>  | 14:00 ~ 14:20 | Feasibility of Applying Mixed-Reality to Enhancing Safety Risk Communication in Construction Workplaces                                | <i>Fei Dai, Abiodun Olorunfemi and Weibing Peng</i>                           |

## Session II-B: Infrastructure Engineering and Management 14:40 ~ 15:55 On Oct 30, 2017

**Session Chair: Huige Xing**

**Room: *The Multi-function Hall***

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|------|---------------|--|---|
| #207 | 14:40 ~ 14:55 | Case study on the Chinese Polluted River and Lake Restoration Under the Sponge City Construction               | <i>Jian Liu</i>   |
| #106 | 14:55 ~ 15:10 | Exploring the Challenges to Usage of Building Construction Cost Indices Ghana                                  | <i>Ernest Osei-Tutu, Ernest Kissi and Safowaa Osei-Tutu</i>   |
| #205 | 15:10 ~ 15:25 | Recovery of Built Environment: from a Perspective of Urban Resilience  | <i>Zaishang Li</i>  |
| #28  | 15:25 ~ 15:40 | Heavy-impact Sound Insulation Performance According to the Changes of Dry Flooring Structure in Wall Structure | <i>Jongwoo Cho, Hyun-Soo Lee, Moonseo Park, Hohwan Lim and Jagon Kim</i>                                  |
| #45  | 15:40 ~ 15:55 | Framework for Preliminary Scheduling Based on Historical Data: Focused on Airport Projects                     | <i>Seunghee Kang, Youngsoo Jung, Ikhaeng Lee, Sungrae Kim, Changweon Lee, Jinhak Jung and Namhyun Cho</i> |



## Session II-C: Civil Engineering Construction and Management I 16:15~17:45 On Oct 30, 2017

**Session Chair: Dingfeng Yuan**

**Room: *The Multi-function Hall***

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|-------------|---------------|--|--|
| <b>#213</b> | 16:15 ~ 16:30 | The Legend of the Chengdu No.6 Water Plant B BOT Project   | <i>Chuan Chen</i>  |
| <b>#41</b>  | 16:30 ~ 16:45 | Framework for Construction Safety Management through a Mobile NFC-based system   | <i>Akeem Pedro, Jung-Ui Kim, Do-Yeop Lee and Chan-Sik Park</i> |
| <b>#47</b>  | 16:45 ~ 17:00 | Modification of Public-Private Partnership in Japan  | <i>Takashi Kaneta</i>  |
| <b>#87</b>  | 17:00 ~ 17:15 | Research on the Strategies of Korean Construction Companies in Advancing into the US Infrastructure Market : Focused on PPP Projects | <i>Hwarang Kim, Doyeob Kim and Hyoun Seung Jang</i>            |
| <b>#60</b>  | 17:15 ~ 17:30 | A Study on Client's Decision-Making in Construction Phase of Building Projects in Japan  | <i>Atsushi Tamura, Takashi Kaneta and Shuzo Furusaka</i>       |
| <b>#110</b> | 17:30 ~ 17:45 | A Study on Science and Policy Analysis in the Field of Construction and Transportation R&D in Korea                                  | <i>Jongwon Lee</i>   |

**Session III-A: Civil Engineering Construction and Management II**  
**13:00 ~ 14:20 On Oct 30, 2017**

**Session Chair: Fei Dai**

**Room: Moli Hall**

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|-------------|---------------|---|---|
| <b>#100</b> | 13:00 ~ 13:15 | Selection of Key Management Targets for Claim Causes through Relational Analysis on the Causes of Change Order Claims | <i>Min Kwang-Ho, Ko Gun-Ho, Jin Chengquan, Hyun Chang-Taek and Han Sang-Won</i> |
| <b>#105</b> | 13:15 ~ 13:30 | Developing an IFC-based database for construction quality evaluation  | <i>Zhao Xu, Bingjing Li and Qiming Li</i>                                       |
| <b>#237</b> | 13:30 ~ 13:45 | Assessment of the Impact of Interdependencies on the Resilience of Networked Critical Infrastructure Systems          | <i>Quan Mao</i>   |
| <b>#43</b>  | 13:45 ~ 14:00 | Hierarchical Text Classification Method for Structuring Construction Accident Cases                                   | <i>Do-Yeop Lee, Akeem Pedro and Chan-Sik Park</i>                               |
| <b>#219</b> | 14:00 ~ 14:20 | Resiliency Investment Decision Making: Going Beyond Code  | <i>Hueywen Lim</i>  |

**Session III-B: New Technology and Tests**  
**14:40~15:55 On Oct 30, 2017**

**Session Chair: Ruwen Tan**

**Room: Moli Hall**

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|-------------|---------------|--|--|
| <b>#31</b>  | 14:40 ~ 14:55 | The Development of Around View Monitoring(AVM) System Prototype for Excavators                         | <i>Dong Jun Yeom, Yu Na Hong, Yoo Jun Kim, Hyun Seok Yoo and Young Suk Kim</i> |
| <b>#231</b> | 14:55 ~ 15:10 | Evaluation of the Disaster Resistance Capability of Water Distribution System Against Nodal Attacks    | <i>Fei Wang</i>  |
| <b>#98</b>  | 15:10 ~ 15:25 | Experimental Study of In-situ Production of Precast Concrete Members                                   | <i>Jeeyoung Lim, Seunghyun Son, Sunkuk Kim and Jeong Tai Kim</i>               |
| <b>#93</b>  | 15:25 ~ 15:40 | Geographical and Equipment Modeling for 3D Excavation Simulation                                       | <i>Sungwoo Moon, Hwani Jo and Sangtae Kim</i>                                  |
| <b>#62</b>  | 15:40 ~ 15:55 | Analysis on Tower Crane Selection in Precast Concretes Structures and its Connection with Precast Rate | <i>Jingjing Guo, Kang Wang, Yan Fu and Zhenyu Peng</i>                         |

## Session III-C: Higher Education and Construction Case Study 16:15~17:45 On Oct 30, 2017

**Session Chair: Xia Wang**

**Room: Moli Hall**

<b>#243</b>	16:15 ~ 16:30	Exploitation and Innovation of Modern Architectural Education to Combine Teaching Research and Design Practice	<i>David Hongliang Wu</i>
<b>#216</b>	16:30 ~ 16:45	Project Based Learning	<i>Lu Hongyan</i>
<b>#206</b>	16:45 ~ 17:00	Avantguard Teaching practices in Architectural Association.	<i>Ray lv</i>
<b>#94</b>	17:00 ~ 17:15	Exploring the Adoption of IPD Practices in Chinese Construction Industry	<i>Shan Li and Qiuwen Ma</i>
<b>#24</b>	17:15 ~ 17:30	Industrialized Building Systems for the Kingdom of Saudi Arabia	<i>Try Santoso, Bambang Trigunarsyah, Mohammad Hassanain and Firas Tuffaha</i>
<b>#218</b>	17:30 ~17:45	From Mass Wasting Processes of Soil to Human Settlement Risk and its Adaptation-A Lesson from Wenchuan Earthquake	<i>Baofeng Di</i>

**Session IV-A: BIM & Construction Management**  
**13:00~14:20 On Oct 30, 2017**

**Session Chair: Na Dong**

***Room: Furong Hall***

13:00 ~ 13:30 Sign in, Free Exchange

13:30 ~ 14:00 Leadership Guest's Speech, Award Ceremony *Xiong Feng*  
of Kaiming Competition

**#246** 14:00 ~ 14:20 Construction Practice of P-BIM Digital *Wang Jiayuan*  
Platform Based On Data Sharing

**Session IV-B: BIM & Construction Management**  
**14:40~16:00 On Oct 30, 2017**

**Session Chair: Hongling Guo**

***Room: Furong Hall***

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|-------------|---------------|---|--------------------|
| <b>#276</b> | 14:40 ~ 15:00 | The Impact and the Innovation of the Construction<br>Revolution on the Research Paradigm of Engineering<br>Management | <i>Yin Yilin</i>   |
| <b>#252</b> | 15:00 ~ 15:20 | Thinking about Construction Waste Recycling   | <i>Chen Qijun</i>  |
| <b>#241</b> | 15:20 ~ 15:40 | Engineering Construction Management Based on BIM<br>& its Key Technology  | <i>Zhao Li</i>     |
| <b>#278</b> | 15:40 ~ 16:00 | Knowledge Decision Support System for Smart City<br>Infrastructure  | <i>Li Bingzhan</i> |

## Session IV-C: BIM & Construction Management 16:15~17:45 On Oct 30, 2017

**Session Chair: Bingchen Li**

***Room: Furong Hall***

<b>#255</b>	16:15 ~ 16:30	BIM-enabled Automated Approach to the Selection, Location and Simulation of Mobile Cranes	<i>Guo Hongling</i>
<b>#277</b>	16:30 ~ 16:45	Research on Construction Lean Management in the Context of BIM	<i>Dong Na</i>
<b>#249</b>	16:45 ~ 17:00	Practice of Lifecycle Construction Cost Management Based on BIM	<i>Pan Min</i>
<b>#254</b>	17:00 ~ 17:15	Study on the Human Factors of Safety Accidents Based on Hfcas	<i>Ye Gui</i>
<b>#251</b>	17:15 ~ 17:30	Research on the Selection Mechanism of Flexible Building Suppliers Based on BIM and GIS	<i>Wang Tingkui</i>
<b>#263</b>	17:30 ~ 17:45	New Technology and Development Trend of BIM	<i>Song Shan</i>