



ICCREM 2019



*Innovative Construction
Project Management and
Construction Industrialization*



Edited by
Yaowu Wang, Ph.D.
Mohamed Al-Hussein, Ph.D.
Geoffrey O. R. Shen, Ph.D.



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ICCREM 2019

*INNOVATIVE CONSTRUCTION PROJECT MANAGEMENT AND
CONSTRUCTION INDUSTRIALIZATION*

PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON
CONSTRUCTION AND REAL ESTATE MANAGEMENT 2019

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Modernization of Management Committee of the
China Construction Industry Association

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EDITORS

Yaowu Wang, Ph.D.
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Preface

We would like to welcome you to the 2019 International Conference on Construction and Real Estate Management (ICCREM 2019), organized by Harbin Institute of Technology, University of Alberta, Hong Kong Polytechnic University, Louisiana State University, Luleå University of Technology, Guangzhou University, Heriot-Watt University, Marquette University and Karlsruhe Institute of Technology. The Conference is a continuation of the ICCREM series which have been held annually since 2003.

The theme for this conference is “Innovative Construction Project Management and Construction Industrialization”. It especially highlights the importance of innovative construction project management method and construction industrialization for construction engineering and management. The conference proceedings include 110 peer-review papers covered fourteen important subjects. And all papers went through a two-step peer review process. The proceedings of the congress are divided into four parts:

- Intelligent Construction and Construction Informatization
- Innovative Construction Project Management
- Construction Industrialization and Sustainability
- Real Estate and Land Management

On behalf of the Construction Institute, the American Society of Civil Engineers and the 2019 ICCREM Organizing Committee, we welcome you to participate in the conference and wish you leave with a wonderful experience and memory at ICCREM 2019.

Professor Yaowu Wang

Harbin Institute of Technology

P. R. of China

Professor Mohamed Al-Hussein

University of Alberta

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Contents

Intelligent Construction and Construction Informatization

A Framework for the Contract Management System in Cloud-Based ERP for SMEs in the Construction Industry	1
Yuan Chen, Meng Wang, and Ling Li	
A Discrete Event Simulation-Based Analysis of Precast Concrete Supply Chain Strategies Considering Suppliers' Production and Transportation Capabilities.....	12
Shiwei Chen, Kailun Feng, Weizhuo Lu, Yaowu Wang, Xue Chen, and Shuo Wang	
Applying Generative Adversarial Network to Combine Occupant Responses to Design Contexts in Immersive Virtual Reality with Existing Building Performance Models	25
Chanachok Chokwitthaya, Yimin Zhu, and Supratik Mukhopadhyay	
Construction Workers' Behaviors Recognition Using 2D Image Human Skeleton Parameterized Method.....	35
Ankang Ji, Xiaolong Xue, Yudan Dou, and Yuna Wang	
Information Modelling (BIM) Framework for Practical Assessment	42
Dat Tien Doan, Ali Ghaffarianhoseini, Nicola Naismith, Tongrui Zhang, Attiq Ur Rehman, John Tookey, and Amirhosein Ghaffarianhoseini	
Breakdown Structure in the Digitalization of Design Work for Industrialized House-Building: A Case Study of Systems Building Using Predefinition Levels of Product Platforms	49
Gustav Jansson, Jani Mikkavaara, Fredrik Elgh, and Martin Lennartsson	
A System Dynamics Model of Prevention through Design Regarding Unsafe Behavior in Construction.....	58
Xinlu Sun and Pinchao Liao	
Computer Vision Technologies and Machine Learning Algorithms for Construction Safety Management: A Critical Review.....	67
Yongyue Liu, Yaowu Wang, and Xiaodong Li	
Global Building Information Modeling Maturity	82
Chi Tian, Yunfeng Chen, Jiansong Zhang, and Robert F. Cox	
Study on Influencing Factors of BIM Adoption in China's Construction Industry Based on FA-SEM Model	93
Yun Le, Xinyue Zhang, and Mingqiang Liu	

Incentive Compensation Structure for Cost Control of Construction Project Based on IPD-Ish in China	101
Qiankun Wang, Tingting Mei, Lingwei Kong, and Yaping Xiao	
The Application Value of BIM Technology in Prefabricated Building Based on EPC General Contracting Management Model.....	109
Yunbo Li and Zun Pei	
Research on Top-Level Redesign of Smart Construction System Based on Case Study	117
Feng Shi, Qingchun Wang, and Yiyue Wang	
Comparative Research of Integration Application with BIM Based on Mapping Knowledge Domains at Home and Abroad	125
Wenting Song and Qingpeng Man	
Initial Logistics Management System of Prefabricated Component Based on BIM and RFID Technology	135
Yan Liu, Lin Qi, and Yingbo Ji	
Research on Simulation of Promotion Policies for New Technology Application in Construction Industry Based on System Dynamics.....	144
Jianhui Li and Lei Li	
Optimization of Integrating Inventory and Transportation of Engineering Logistics Based on an Improved Heuristics Approach	153
Hui Wang, Jinbo Guan, and Shuo Wang	
Construction and Real Estate Education Curriculum Reform Based on BIM: Taking Legal System of Construction Contract Course as an Example	161
Shuhong Zhang and Mengxi Gao	
Energy Internet Development Based on Blockchain Technology	167
Xuefeng Zheng, Hongyu Jia, and Jinsong Wang	
The Application of BIM in Urban Rail Transit Project	179
Xiaoxi Liu, Chengjie Xu, and Qian Jing	
Application of BIM Technology in Zhuhai Port Project of Hong Kong-Zhuhai-Macao Bridge	185
Taotao Mo, Fan Wu, Yuan Zhang, and Mingquan Wang	
Measuring the Underlying Structure of Classic Topics in Construction Engineering and Management: An SNA-Based Analysis	192
Zebin Zhao, Hengqin Wu, Xiaolong Xue, Geoffrey Qiping Shen, and Xin Li	

Visual Simulation for Optimization and Application in Tunnel Schedule Engineering	199
Wei Zhong and Peiyao Wang	

Innovative Construction Project Management

Construction Supply Chain Integration: Past and Future	204
Hao Lu, Xinghua Gao, Pardis Pishdad-Bozorgi, and Guangbin Wang	

The Impact of PCSR on Financial Performance: Evidence from Chinese Construction Enterprises	215
Ying Jiang and Xiaolong Xue	

Study on Risk Sharing of General Contracting for Construction Projects	221
Jiading Zhang and Liangbao Li	

Project Controls and Management Systems: Current Practice and How It Has Changed over the Past Decade	231
Kareem Mostafa and William O'Brien	

Influence of Risk Factors on Project's Objectives in Construction Industry of Pakistan	241
Asad Kamal, Hafiz Zahoor, Babar Ali, Suqrat Babar, and Ahsen Maqsoom	

The Development Strategies of Public Art in Metro Architectural Space of Mega Cities in China.....	250
Han Cheng and Julian Worrall	

Effects of Contractual Incentives in Construction Projects	256
Yunhong Wang, Wenxin Shen, and Wenzhe Tang	

Research on Construction Project Safety Management Model Built by Owner and Contractor	263
Dawei Chen, Huanteng Zhao, and Guangyao Zhang	

Meta-Network Modelling for International Construction Risk Management of Multiple Objectives	273
Tsenguun Ganbat and Pinchao Liao	

Research on Application of Gray Correlation Analysis to Policy Formulation in Construction Industry	281
Shaolei Lv and Hongbing Li	

Building the Model of Multi-Objective Cooperative Measurement for the Complex Construction Project	288
Jie Liu, Xianyu Tan, Yongliang Wang, and Zhenwu Shi	