



# INTERNATIONAL CONFERENCE ON CONSTRUCTION & REAL ESTATE MANAGEMENT

Aug 24-25th, 2020 OnLine Conference

# **Conference Program**

## **Organizers:**

Harbin Institute of Technology, P.R. China Luleå University of Technology, Sweden Hong Kong Polytechnic University, P.R. China Louisiana State University, USA University of Alberta, Canada Guangzhou University, P.R. China Marquette University, USA Nottingham Trent University, UK

### **Sponsored by:**

The Construction Institute (CI) of the American Society of Civil Engineers (ASCE), USA Modernization of Management Committee of the China Construction Industry Association, P.R. China

#### FROM THE ICCREM-2020 ORGANIZING COMMITTEE:

We would like to welcome you to the 2020 International Conference on Construction and Real Estate Management (ICCREM 2020). ICCREM 2020 is jointly organized by Harbin Institute of Technology, Luleå University of Technology, Hong Kong Polytechnic University, Louisiana State University, University of Alberta, Guangzhou University, Marquette University and Nottingham Trent University. The conference will be held by Luleå University of Technology, and will be sponsored by the Construction Institute of the American Society of Civil Engineers (ASCE) and the Modernization of Management Committee (MMC) of the China Construction Industry Association (CCIA). The Conference is a continuation of the ICCREM series, which has been held annually since 2003. Papers of the 2003 to 2012 conferences were included in the ISTP databases or ISSHP databases, and papers of the 2013 to 2019 conference were all included in the EI databases.

The ICCREM 2020 Conference aims to create an international platform for researchers, educators, and practitioners from colleges and universities, research institutes, government agencies, consulting firms, construction companies, financial institutions and other related organizations to exchange ideas, share knowledge, build networks, and explore future potentials in construction and real estate industries.

It was a pleasure and an honor to organize and host ICCREM 2020 and we want to emphasize that the success of the conference would have not been possible without the contributions of members of the Organizing Committee, the International Scientific Committee, and the Conference Secretariat. We also want to express our gratitude to all authors and reviewers for their contributions. We believe that the ICCREM 2020 will be invaluable to construction professionals in advancing their career. In closing, we hope that you enjoy the conference and leave with a wonderful experience and memory at ICCREM 2020.

Professor **Yaowu Wang**Harbin Institute of Technology
P. R. of China

Professor **Thomas Olofsson**Luleå University of Technology
Sweden

Beijing Time	Monday, Aug 24th, 2020 (Host: Dr. Kailun Feng, HIT)
2:00 PM-2:15 PM	WELCOME SPEECH: Conference Executive Chair, Prof. Yaowu Wang
2:15 PM-2:30 PM	SPEECH: Dr. Tao YU, Harbin Institute of Technology, P.R. China
2:30 PM-3:00 PM	KEYNOTE SPEECH: Prof. Thomas Olofsson, Luleå University of Technology
	Title: Exploring the trade-off between the operational energy use and embodied energy use in buildings
3:00 PM-3:30 PM	KEYNOTE SPEECH: Prof. Geoffrey Q.P. Shen, the Hong Kong Polytechnic University
	Title: RFID-Enabled BIM Platform for Smart Construction of Prefabricated Residential Buildings
3:30 PM-3:45PM	Financial Impact Assessment of Construction Delay in BOT Infrastructure Projects
	Supattaradech Kasemsukh (Paper ID: 074+L)
3:45 PM-4:00PM	Process Platforms for Onsite Assemblies: A Case Study of Work Break Down Structures in SME's
	Raafat Hussamadin(Paper ID: 111+X)
4:00 PM-4:15PM	Evaluating the critical failure factors for implementing residential modular integrated construction projects
	Ibrahim Yahaya WUNI (Paper ID: 091+X)
4:15 PM-4:30PM	Research on Responsive Measurement of Talents Training Mode of Engineering Management Majors in Financial and
	Economic Universities Bin DU (Paper ID: 098+X)
4:30 PM -4:45PM	Automation in Extraction and Sharing Information between BIM and Project Management Databases
	Lingzi Wu (Paper ID: 006+A)
4:45 PM -5:00PM	Simulating the Lighting Electricity Consumption of Hotel Building: A Case from China
	Xingshuo He(Paper ID: 107+X)

Beijing Time	Tuesday, August 25 <sup>th</sup> , 2020 (Host: Dr. Tao Yu, HIT)
2:00 PM-2:15PM	SPEECH: Dr. Kailun Feng, Harbin Institute of Technology, P.R. China
2:15 PM-2:30PM	Critical Factors for Kowledge Sharing in Communities of Practice
	Meng WEI (Paper ID: 054+G)
2:30 PM-2:45PM	Lifting path planning of mobile cranes based on RRT algorithm
	Zhou Ying (Paper ID: 011+B)
2:45 PM-3:00PM	A BIM-LCA Integrated Environmental Impact Assessment for Prefabricated Concrete Residential Buildings
	Jingliang Xu (Paper ID: 108+X)
3:00 PM-3:30 PM	KEYNOTE SPEECH: Associate Prof. Weizhuo LU, Luleå University of Technology
	Title: Digitalization of built environment: current works and future directions
3:30 PM-4:00PM	KEYNOTE SPEECH: Prof. Ming SUN, the Nottingham Trent University
	Title: Understanding complexity of megaprojects: a systematic approach
4:00 PM-4:15PM	Investigating the Critical Success Factors for Small Contractors to Implement Sustainable Construction
	Liu Wen-Que (Paper ID: 029+D)
4:15 PM-4:30PM	Perception and Acceptance of Sponge Campus Renovations: A Survey based Analysis from China
	Yanfen WANG (Paper ID: 103+X)
4:30 PM-4:45PM	Building Energy Efficiency Related Knowledge Mining Based on Natural Language Processing
	Dingyuan MA (Paper ID: 019+B)
4:45 PM-5:00PM	BEST PAPER AWARD (ICCREM-2020)