



# ICCREM 2018



## *Construction Enterprises and Project Management*



**Edited by**

Yaowu Wang; Yimin Zhu;  
Geoffrey Q. P. Shen; and



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# ICCREM 2018

## *CONSTRUCTION ENTERPRISES AND PROJECT MANAGEMENT*

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PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON  
CONSTRUCTION AND REAL ESTATE MANAGEMENT 2018

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## Preface

We would like to welcome you to the 2018 International Conference on Construction and Real Estate Management (ICCREM 2018). Harbin Institute of Technology, Louisiana State University, Hong Kong Polytechnic University, University of Alberta, Luleå University of Technology, Heriot-Watt University, Marquette University, Karlsruhe Institute of Technology, Guangzhou University. The Conference is a continuation of the ICCREM series which have been held annually since 2003.

The theme for this conference is “Innovation Technology and Intelligent Construction”. It especially highlights the importance of innovation technology for construction engineering and management. The conference proceedings include 138 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:

- Innovative Technology and Intelligent Construction
- Sustainable Construction and Prefabrication
- Analysis of Real Estate and Construction Industry
- Construction Enterprises and Project Management

On behalf of the Construction Institute, the American Society of Civil Engineers and the 2018 ICCREM Organizing Committee, we welcome you and wish you leave with a wonderful experience and memory at ICCREM 2018.

**Professor Yaowu Wang**

Harbin Institute of Technology  
P. R. of China

**Professor Yimin Zhu**

Louisiana State University  
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## Acknowledgments

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