

# ICCREM 2017



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Edited by Yaowu Wang  
Yongshi Pang  
Geoffrey Q. P. Shen



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# ICCREM 2017

## *REAL ESTATE AND URBANIZATION*

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PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON  
CONSTRUCTION AND REAL ESTATE MANAGEMENT 2017

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## Preface

We would like to welcome you to the 2017 International Conference on Construction and Real Estate Management (ICCREM 2017). Harbin Institute of Technology, Guangzhou University, Hong Kong Polytechnic University, Louisiana State University, University of Alberta, Luleå University of Technology, Heriot-Watt University, Marquette University, 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 “Prefabricated Construction and Construction Industrialization”. It especially highlights the importance of construction industrialization and prefabricated technology for construction engineering and management. The conference proceedings include 174 peer-review papers covered eleven important subjects. And all papers went through a two-step peer review process. The proceedings of the congress are divided into four parts:

- Prefabricated Buildings, Industrialized Construction and PPP
- Industry Regulation and Sustainable Development
- Real Estate and Urbanization
- Project Management and Construction Technology

On behalf of the Construction Institute, the American Society of Civil Engineers and the 2017 ICCREM Organizing Committee, we welcome you and wish you leave with a wonderful experience and memory at ICCREM 2017.

**Professor Yaowu Wang**

Harbin Institute of Technology  
P. R. of China

**Professor Yongshi Pang**

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## Acknowledgments

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