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On behalf of the Organizing Committee, we are delighted to welcome all honorary guests and participants to the 7th International Conference on Discrete Element Methods (DEM7) held during August 1–4, 2016 at Dalian University of Technology, Dalian, China.

The DEM7 provides an international forum for the exchange of ideas on recent advances in the discrete element method and related computational methods and techniques. It also accommodates presentations on a wide range of topics to facilitate inter-disciplinary exchange of ideas in science, engineering and related disciplines.

We have accepted over 200 papers for presentation during the three days of meetings, including three plenary lectures, six keynote lectures and a number of invited lectures. We are grateful to all invited speakers for accepting our invitation. The estimated number of total participants is around 220, coming from 22 countries and regions, including Argentina, Austria, Australia, Canada, Belgium, Chile, Czech Republic, Finland, France, Germany, Hong Kong, India, Iran, Japan, Netherlands, South Africa, South Korea, Taiwan, Thailand, UK, USA and Mainland China.

The DEM7 Proceedings consist of 154 full length papers, covering a broad range of topics related to DEM theory and algorithms, DEM-FEM modeling and DEM informed constitutive modeling of granular materials, DEM related methods, granular flows, DEM in soil and rock mechanics, DEM in a variety of engineering fields, high-performance DEM computing, and DEM related experimental studies. We thank the authors, who have contributed their full length papers to the conference proceedings. All papers accepted for publication in the proceedings have been peer reviewed.

We would like to express our gratitude to all the members of the Local Organizing Committee and the International Advisory Committee. We very much appreciate the reviewers for their prompt review reports on the submitted papers that have ensured the academic quality of these conference proceedings. Finally, we would also like to express our sincere thanks to Dalian University of Technology,
the State key Laboratory of Structural Analysis for Industrial Equipment and Beijing Hi-key Tech Co.Ltd for their financial support to the DEM7 conference.

We hope that this conference will provide a great venue for the interaction among scientists, leading to new topics of research and new collaborations. We wish all of you to have an enjoyable time in this beautiful coastal city of Dalian.

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