

Preface

Dear Distinguished Authors and Guests,

The Organizing Committee warmly welcomes you to the 2014 3rd International Conference on Industrial Design and Mechanics Power (the 3rd ICIDMP 2014), held in Beijing, China, 21-22 June, 2014.

The topics of ICIDMP 2014 cover different areas of industrial designs, mechanics power, computer-aided and controlling and understanding of manufacturing and materials processes. The peer-reviewed, selected papers and additional lectures with breakthrough contributions enlighten the technical program. Apparently, the conference program is extremely rich, professional, and featured with high-impact. The aims of the conference therefore provide an excellent platform for participants to exchange and share new ideas and practical experiences, to establish business or research relations and to search global partners for future collaboration.

The proceeding of this conference is divided into eight chapters containing (1)Industrial Design, Machine Design, Product Design, Simulation; (2)Automation, Computer-Aided Designed and Manufacturing, Injection Molding;(3)Sensors, Detection and Monitoring Technologies;(4)Manufacturing Technology and Processes;(5)Robotics, Control System and Applications;(6)Materials Science and Technology;(7)Tribology, Automotive Engineering, Vibration and Pump Engineering;(8)Mechanics Power, Electrical Power and Energy Engineering We earnestly hope that the conference proceeding can contribute and provide you for significant and improved knowledge in the contemporary scientific and industrial fields.

On behalf of the organizing committee, I would like to thank Anne, Tanja, Dorthe and all the editors from Trans Tech Publications for their great support to ICIDMP 2014. Without their excellent editorial work, the proceedings of ICIDMP 2014 cannot be published so timely and successfully.

Finally we wish all the authors and attendees a unique, rewarding and enjoyable memory at the 3rd ICIDMP 2014 in Beijing, China. We look forward to your participation in the 4th ICIDMP in 2015.

With our warmest regards,

Jenny Ji
Conference Organizing Chair
July 2, 2014
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