

Preface

Dear Distinguished Authors and Guests,

The Organizing Committee warmly welcomes you to the 2014 3rd International Conference on Machine Design and Manufacturing Engineering 2014 (ICMDME 2014), held in the Jeju Island, Korea, 24-25 May, 2014.

The topics of ICMDME2014 cover different areas of machine designs, computed-aided and controlling and understanding of manufacturing and materials processes. The submitted papers were peer-reviewed. The 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 collects the fully refereed papers presented at the conference. The themes of the conference are divided into eight chapters containing (1) machine design, simulation, (2) automation, computer-aided design 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, and (8) product design, vibration, Energy, pump 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, Dorte and all the editors from Trans Tech Publications for their great support to ICMDME2014. Without their excellent editorial work, the proceedings of ICMDME2014 cannot be published so timely and successfully.

Finally we wish all the authors and attendees of ICMDME2014 a unique, rewarding and enjoyable memory at ICMDME2014 in the Jeju Island, Korea. We look forward to your participation in the 4th ICMDME2015 in 2015.

With our warmest regards,

Jenny Ji
Conference Organizing Chair
June 2, 2014

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