

# Preface

The 3rd International Conference on Design and Manufacturing Engineering (ICDME2018) was successfully held in Monash University, Melbourne, Australia during July 16-18, 2018. These proceedings consist of the selected papers that will be presented at ICDME 2018. The aim as well as objective of ICDME 2018 is to present the latest research and results of scientists related to in Design and Manufacturing Engineering topics. This conference provides opportunities for the delegates to exchange new ideas face-to-face, to establish business or research relationships as well as to find global partners for future collaborations. We hope that the conference results will lead to significant contributions to the knowledge in these up-to-date scientific fields.

The conference covered developments and recent trends in the fields of Design and Manufacturing Engineering. The ICDME2018 conference reflected the technology needs of the world. This proceeding contains the reviewed papers presented at the ICDME 2018 and covered the most important issues related to the design and manufacturing engineering with focusing on the Functional Material Design and Analysis, Product Design and Quality Control, Vehicle Engineering and Manufacturing, Mechanical Engineering and Control Technology and Aerospace Engineering.

With this selection the Conference Committee has assembled a comprehensive program offering 4 keynote speeches and 2 plenary speeches from renowned scientists from Australia and China. The topics of these speeches were *Soft Plasmene Nanosheets: From Design to Applications*, *Development of heatpipe plate technologies for high performance cooling applications*, *Future Fibres Research and Development*, *Progress in rolling technology and development of novel composite materials*, *Smart Materials for Chipless RFID Sensors: Revolution in Identification and Sensing in the New Millennium*, and *Design and Engineering of Sustainable Packaging Materials with Cellulose Nanofibres*, respectively. These speeches have shown the most up-to-date research results in the field of design and manufacturing engineering. The program also includes 6 parallel technical sessions with 42 oral presentations, focused on Materials Science and Engineering, Mechanical Design Manufacturing and Automation, Material Forming and Control Technology, Power Machinery Engineering, Engineering Education and Management, and Digital Manufacturing System and Quality Control.

We would like to thank all members of the conference committees, as well as the reviewers for their advice, which has certainly helped to improve the quality, accuracy, and relevance of each paper selected for the conference program and this volume. We extend our thanks to every author and participant who contributed to the success of the conference. Looking forward to meet you again in next year.

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Assoc. Prof. Warren Batchelor, Monash University, Australia  
On behalf of Conference Committees  
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