

FOREWORD BY THE EDITORS-IN-CHIEF

This open access e-Proceedings contains a compilation of 218 selected papers from the Mechanical Engineering Research Day 2017 (MERD'17). This fourth series event is held at Universiti Teknikal Malaysia Melaka (UTeM) - Melaka, Malaysia, on 30 March 2017. The theme chosen for this event is 'IDEA. INSPIRE. INNOVATE'.

It was gratifying to all of us when the response for MERD'17 is overwhelming as the technical committees received more than 300 submissions from various areas of mechanical engineering and related fields. After a peer-review process, the editors have accepted 218 papers for the e-proceedings that cover 8 main themes. This open access e-Proceedings can be viewed or downloaded at www3.utm.edu.my/care/proceedings. We hope that this proceedings will serve as a valuable reference for researchers.

With the large number of submissions, the event has achieved its main objective which is to bring together educators, researchers and practitioners to share their findings and perhaps sustaining the research culture in the university and industry. The topics of MERD'17 are based on a combination of fundamental researches, advanced research methodologies and application technologies.

As the editors-in-chief, we would like to express our gratitude to the editorial board and fellow review members for their tireless effort in compiling and reviewing the selected papers for this proceedings. We would also like to extend our great appreciation to the members of the Publication Committee and Secretariat for their excellent cooperation in preparing the proceedings of MERD'17.

Thank you

Mohd Fadzli Bin Abdollah

Tee Boon Tuan

Mohd Azli Salim

Mohd Zaid Akop

Rainah Ismail

Haslinda Musa