

Editorial

This open access e-proceedings contains a compilation of 141 selected papers from the 5th Mechanical Engineering Research Day (MERD'18) that was held at Kampus Teknologi UTeM, Melaka, Malaysia, on 03 May 2018. The event was jointly organized by the Faculty of Mechanical Engineering and Centre for Advanced Research on Energy, Universiti Teknikal Malaysia Melaka.

It was gratifying to all of us when the response for MERD'18 is overwhelming as the technical committees received more than 200 submissions from various areas of mechanical engineering and related fields to facilitate the mutual understanding of fundamentals, theory and applications including Automotive and Aeronautics, Computer Modeling and Simulation, Design and Optimization, Energy Conversion and Management, Structure and Materials, Thermal and Fluids & Vibration and Control. All submitted papers are then peer-reviewed, revised according to the reviewers' comments and ultimately 141 papers were accepted for publication in this proceeding. This open access e-proceedings can be viewed or downloaded via www3.utm.edu.my/care/proceedings. We hope that this proceeding 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.

As the editor-in-chief, I would like to express our gratitude to the fellow review members for their tireless effort in reviewing the submitted papers for this proceeding. I also would like to say special thanks to all the authors for promptly revising their papers according to the proceeding requirements. Special thanks are extended to the organizer of the MERD'18, especially to the Organizing Chair, Dr. Ruztamreen Jenal.

Thank you

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