

# Preface

The 2<sup>nd</sup> ICE2013 is organized by the Centre for Product Design and Manufacturing (CPDM), Faculty of Engineering, University of Malaya in collaboration with The Philippine Ergonomics Society, Croatian Ergonomics Society (CES), SAE International – Malaysia Section, Universiti Kebangsaan Malaysia (UKM), Universiti Putra Malaysia (UPM), National Defense University (NDU), Universiti Sultan Zainal Abidin (UnisZA), Universiti Malaysia Pahang (UMP), Perhimpunan Ergonomi Indonesia (PEI), Board of Engineers Malaysia (BEM), Malaysia Design Council (MRM) and Malaysian Society for Engineering and Technology (MySET).

The aim of the ICE2013 conference is to provide an international forum for the dissemination and exchange of scientific information on theoretical, generic and applied areas of ergonomics.

The conference theme, "Future Human Centered Design" represents a universal consciousness in design to fit the human needs and improve their well being. Deeper knowledge concerning how work environments, products and systems to suit the needs, demands and limitations of humans as well as support a sustainable and prospering society can be further developed. Besides the keynotes given by experienced and well known ergonomists, the scientific sessions contains such topics as:

- Digital Human Modelling
- Design for Special Population
- Environmental Ergonomics
- Ergonomics in Agriculture
- Ergonomics Awareness, Training and Education
- Ergonomics Product Design
- Ergonomics and Work Design
- Health Care Ergonomics
- Musculoskeletal Disorders
- Transport Ergonomics

The conference also includes two workshops, one on Manual Lifting Analysis and the other on Digital Human Modeling in Workstation Design.

This proceeding is the collection of the 58 scientific papers accepted to be published and presented at the conference. The papers are peer reviewed scientific and practitioners' papers, reflecting the various fields of ergonomics. The editors hope that this publication will be of benefit not only to those who participated in the ICE2013 conference, but to all ergonomics enthusiasts as a reference to develop and expand new ideas .

We would like to thank all who have shown interest in the conference, supported and contributed to it. We hope to be able to organise similar conference in future .

Thank you.

September 2013

Editor ICE2013

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