

## Preface

This special issue of Key Engineering Materials contains selected refereed papers presented at the Seventh International Conference on Advanced Computational Engineering and Experimenting (ACE-X 2013) held at NH Ribera del Manzanares (Madrid), Spain during the period 1<sup>st</sup> - 4<sup>th</sup> July, 2013.

The goal of the conference was to provide a unique opportunity to exchange information, to present the latest results as well as to review the relevant issues on contemporary research in mechanical engineering. Young scientists were especially encouraged to attend the conference and to establish international networks with well-known scientists.

During the conference, special sessions related to COMPUTATIONAL FLUID DYNAMICS (organised by Dr. Ku Zilati Ku Shaari and Dr. Mokhtar Awang), PLASTICITY AND CONSTITUTIVE MODELLING (organised by Prof. Andreas Öchsner), BIOMECHANICS & BIOMATERIAL (organised by Prof. Saied Darwish), NANOMATERIALS (organised by Prof. A. Shokuhfar and Prof. Constantin Politis), ADHESIVE SCIENCE AND TECHNOLOGY (organised by Prof. Raul Duarte S.G. Campilho), ALTERNATIVE ENERGIES (organised by Dr. Germán Ferreira), NANOSYSTEMS (organised by Prof. J.N. Reddy), BIOMECHATRONICS AND APPLIED ENGINEERING FOR THE DESIGN OF PROSTHESIS (organised by Prof. Juan A. Beltrán Fernández), OPTIMIZATION OF STRUCTURES AND COMPONENTS (organised by Prof. Pablo A. Muñoz-Rojas), NUMERICAL MODELING OF STRUCTURES (organised by Prof. Alen Harapin, Prof. Boris Trogrlic and Prof. Mirela Galic), SCIENTIFIC VISUALIZATION AND IMAGING SYSTEMS (organised by Prof. Fabiana Rodrigues Leta), DEFORMATION, DAMAGE AND FRACTURE OF FIBROUS COMPOSITES (organised by Prof. Mohd N. Tamin) and STRUCTURAL CRASHWORTHINESS AND IMPACT (organised by Dr. Zaini Ahmad) were organised.

More than 200 scientists and researchers coming from more than 37 countries attended the conference. The large number of presented papers emphasises the considerable academic and industrial interest in the conference theme. The editors wish to thank the authors and delegates for their participation and cooperation, which made this seventh conference especially successful.

Finally, we wish to express our warm thanks and appreciation to our colleagues and associates for their sustained assistance, help and enthusiasm during the preparation of the conference.

The eight conference, ACE-X-2014, will be held in Paris, France, from 30th June - 3rd July, 2014 (<http://www.acex-conference.com/>).

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