

Fumihito Ashida

Preface

Published online: 4 June 2010
© Springer-Verlag 2010

The guest editor is heartily glad for publication of the special issue of Acta Mechanica, which was edited from proceedings papers presented at the Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS 2008). He hopes the special issue will contribute to further developments in the mechanics of functional materials and structures.

ACMFMS 2008 was held in Matsue, Japan, from October 31 to November 3, 2008. It was organized for providing a forum for researchers and academics, particularly from East Asia and the neighboring region, to interact, exchange ideas and establish relationships, with a view to future cooperation and subsequent development of research in theoretical and applied mechanics of solids. Young university faculty and researchers were especially encouraged to participate, and to use this opportunity to network with others in similar situations, who would also be seeking to develop and extend their research abilities and experience.

The proceedings of ACMFMS 2008 contain a total of 104 papers. The number of participants in ACMFMS 2008 was 41 from abroad (Australia, China, Egypt, Germany, India, Indonesia, Korea, Romania, Singapore, Slovenia, Taiwan) and 84 from Japan. During the conference, the opening lecture, the special lecture, the three keynote lectures, 71 regular lectures, and 23 poster presentations were delivered. Main topics were piezoelectric composites and structures, functionally graded materials, designs of composites and structures, material modelings, wave propagations, vibrations, thermal stresses, contact mechanics, fracture mechanics, micro/nano mechanics, experimental mechanics, plasticity, viscoelasticity, and fatigue.

The program committee of ACMFMS 2008 selected 20 papers from among the proceedings papers based on results of double reviews made by the committee members before the conference and by the session chairs during the conference. According to recommendations from the chair of the programming committee, the guest editor invited the authors of the selected 20 papers to submit a full paper to the special issue of Acta Mechanica. Finally, 4 review papers and 13 original papers were accepted through the standard review process advanced by appropriate professors chosen worldwide.

The guest editor deeply appreciates the editorial board members of Acta Mechanica, especially the managing editor Professor Hans Irschik, for their offer to edit the special issue. On this occasion, the guest editor is greatly thankful to all authors who submitted full papers to the special issue as well as to all individuals who collaborated to select or review the papers. Special note of gratitude goes not only to Professor Yoshihito Ozawa at Fukushima University in Japan who actively took the chair of the program committee of ACMFMS 2008 but also to Professor Sei-ichiro Sakata at Shimane University in Japan who devotedly served as the secretary of ACMFMS 2008.

Guest Editor
Chair of ACMFMS 2008

F. Ashida (✉)
Department of Electronic and Control Systems Engineering,
Shimane University, 1060 Nishikawatsu-cho,
Matsue, Shimane 690-8504, Japan
E-mail: ashida@ecs.shimane-u.ac.jp