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The second Asian conference on mechanics of functional materials and structures, Nanjing, China, October 2010

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This special issue is a highlight of the current state of the art of mechanics of functional materials and structures, which contains some high-quality papers that were presented in the Second Asian Conference on Mechanics of Functional Materials and Structures (ACMFMS2010) that was successfully held in the wonderful city of Nanjing, China, in October 22–25, 2010. ACMFMS2010 was the successor of the inaugural conference held in Matsue, October 31–November 3, 2008, Japan.

ACMFMS2010 has received 208 submissions from 14 countries/regions and over 100 institutions. Among the accepted submissions, 108 full papers and 43 abstracts have been included in the Proceedings of ACMFMS 2010. During the conference, 9 keynote lectures, 108 oral presentations, and 26 poster presentations were delivered. The technical subjects receiving massive interests include Mechanics of Functional and Intelligent Materials/Structures, Modeling and Simulation, Film and Coating, Nano-Materials/Structures/Mechanics, FGM and Thermoelasticity, Cracks and Defects, and Waves and Vibrations.

The program committee of ACMFMS 2010 selected 21 feature papers, including 9 keynote lectures, based on a rigorous review process that was established to reflect the subjects, author representation, and quality of the conference. Then, each of the 21 papers was reviewed by an appropriate reviewer chosen worldwide for a standard reviewing. After the review and revision process, we finally have accepted 16 papers in this special issue with authors from many institutions worldwide focusing on the fundamental theories and applications of functional materials and structures in some related fields.

The guest editors express heartfelt appreciation to the Editorial Board of Acta Mechanica represented by Prof. Hans Irschik by providing precious volume and opportunity to us with trust. We are also grateful to the authors for their contribution and careful preparation of manuscripts through a tedious process. Finally, we want to show our gratitude to the large number of reviewers who have been contributing their time and expertise in advising us on the selection of papers finally appearing in this issue. We wish the members of this conference community will foster strong bonds through the participation of past and future events with the common goal of fostering more activity which is enjoyed by all.

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