Preface

The present and forthcoming volumes of the *International Journal of Applied Electromagnetics and Mechanics* contain the reviewed papers of the ISEM01.

The tenth International Symposium on Applied Electromagnetics and Mechanics, ISEM-Tokyo, was held at Toshi Center Hotel in Tokyo from May 13th through 16th in 2001. It was organized by the Japan Society of Applied Electromagnetics and Mechanics and the University of Tokyo. The ISEM is now a well known international forum on applied electromagnetics. It started in 1988 in Japan and since then was held in Japan for five times and once in Korea, the United Kingdom, Germany and Italy. This tenth ISEM-Tokyo, back to Japan again, was planned to a tribute to Professor Kenzo Miya to honour his achievements as ISEM's creator and its first chairperson.

The symposium was composed of fourteen organized sessions and it covers the following topics in the area of applied electromagnetics and mechanics as; Strategies for new research and their realization, Advanced dynamics and control, Advanced magnetic engineering, Advanced magnetic fusion nuclear research, Analysis and control of magnetic field, Applied superconductivity, Beam science and technology, Biomagnetics and medical engineering, Electromagnetic functional materials and adaptive systems, Electromagnetic nondestructive evaluation, Electromagnetic sensors and actuators, Inverse problems and new application, NDE and Magnetic detection of material degradation and damage evaluation, and Virtual reality and smart visualization.

During the symposium 334 papers were presented including three plenary lectures, 36 invited lectures, three panel presentations and 292 poster presentations. Three plenary lectures are: “New trend of science and technology in the 21th century” by Prof. Akito Arima, a member of the House of Councilors, “The next step forward in magnetic fusion research: ITER” by Dr. Robert Aymar of ITER Garching Joint Work Site, “An effort for construction of universum in technology” by Prof. Kenzo Miya of Keio University. These three lectures stimulated us to move to a new research direction in the 21st century. More than 370 participants registered from 25 countries and had a fruitful discussion in the lounge and at the banquet as well as in the session.

Papers were submitted to ISEM-Tokyo in two steps. The proceedings book, which was published as “Applied Electromagnetics and Mechanics” in JSAEM Studies in Applied Electromagnetics and Mechanics 9, and was distributed at the symposium, comprised more than 350 papers which were reviewed for the first step two-page papers. In the second step 245 extended full papers were submitted at the symposium site and were reviewed at least two referees. Finally 221 papers were accepted for the publication in these special issues of the International Journal of Applied Electromagnetics and Mechanics.

We would like to express our sincere gratitude to the principal sponsors, namely The Commemorative Association for the Japan World Exposition, Tokyo Convention & Visitors Bureau, The Kajima Foundation, The Asahi Glass Foundation, The Ministry of Education, Culture, Sports, Science and Technology, and Atomic Energy Society of Japan. We are now confident that the ISEM-Tokyo was successful due to their generous contribution and that the success will be followed by the ISEM-Versailles to be chaired by Prof. D. Lesselier, LSS and Prof. A. Razek, LGEH in May 2003 in France.

Finally we should like to express our sincere thanks to session organizers and referees those have contributed to the publication of the ISEM-Tokyo Proceedings and these special issue papers, especially...
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