Preface

The Asia Pacific Symposium of Applied Electromagnetics and Mechanics 2012 (APSAEM 2012) is the seventh symposium devoted to topics on electromagnetic phenomena, both on low and high frequencies, and its applications in electrical, mechanical, and communication systems. It was first started in 2000 at Adelaide, Australia and then at Kanazawa, Japan in 2001, followed with Auckland, New Zealand (2004), Sydney, Australia (2006), Bangkok, Thailand (2008), Kuala Lumpur, Malaysia (2010). The symposium is one in a series of events sponsored by the Japanese Society of Applied Electromagnetics and Mechanics (JSAEM).

APSAEM 2012 is organized by the HoChiMinh City University of Technology (HCMUT) and Faculty of Electrical- Electronics Engineering (FEEE) and co-organized by the Japanese Society of Applied Electromagnetics and Mechanics (JSAEM), Shinshu University and Kanazawa University, Japan from July 25 to July 26-2012. The symposium provides an excellent biennial symposium for sharing knowledge, experience and creative ideas among academia from various universities, research institutes, as well as from industries in the area of applied electromagnetic and mechanics, such as the following: Computational electromagnetics, Inverse problems, Characterization and modeling of electromagnetic materials, Magnetic sensors and measurement, Nondestructive testing, Applications of electromagnetic phenomena, MEMS, Electromagnetic and electromechanical devices and systems, Electromagnetic actuator and applications of permanent magnet, Applications in power, electronics, and control systems, Power electronics and drive systems, Electromagnetic environment and control, Electromagnetic compatibility (EMC), Applications of electromagnetic to medical treatments, Microwaves and antennas, terahertz applications, Applications in telecommunication, Electromagnetics and electromechanical education.

It is really a remarkable milestone to host the APSAEM 2012 held on the two days of July 25-26, 2012 in HoChiMinh City-VietNam, as the HoChiMinh City University of Technology and Faculty of Electrical-Electronics Engineering celebrate their 55 th anniversary on Oct 27th, 2012.

APSAEM 2012 has received more than 75 papers from international and local participants from 11 Asia Pacific and European countries and assembled authoritative keynote speeches, technical presentations, timely technical sessions, as well as exciting discussions among participants from universities, research institutes and industries for their further collaborations in the future.

The next eighth symposium will take place in Taichung in 2014.

Nguyen Huu Phuc