
FOREWORD

Special Section on Recent Progress in Electromagnetic Theory and Its Application

The purpose of this special section is to present a collection of original papers that give an overview of recent progress of research and development in electromagnetic theory and its applications, including those related to the papers presented at the 2011 symposium on Electromagnetic Theory, held at Ugetsu Onsen Isohanabi, Takaoka, Toyama, Japan on November 17–19, 2011. Presentations in this symposium were considered to be the important parts of this special section. Presentations in the International Symposia and Meetings such as PIERS 2011-Marrakesh, PIERS 2011-Suzhou, IEEE AP-S/URSI 2011, and ISAP 2011 were also considered to be the parts of this special section. In response to the call-for-papers, we received 10 papers and 10 brief papers. After careful review, 6 papers and 6 brief papers were accepted in this special section.

The accepted papers and brief papers may be categorized into 4 groups which include (1) Scattering and Diffraction, (2) Periodic Structures, (3) Numerical Techniques, (4) Radiowave Propagation. We hope that the readers find this special section useful in the research of the Electromagnetic Theory and its Applications. We would like to express our sincere appreciations to all the authors of contributed papers for their efforts in preparing the manuscripts and to all the reviewers for their adequate judgments and valuable comments.

The guest editors-in-chief are also indebted to the editorial committee members for their dedicated efforts in organizing this special section. Especially, we would like to express our sincere thanks to Professor Kiyotaka Fujisaki of Kyushu University and Professor Yoshiaki Ando of The University of Electro-Communications, our associate editors who played an important role in the publication of the special section.

Editorial Committee of the Special Section on Recent Progress in Electromagnetic Theory and Its Application:

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Masahiko Nishimoto and Hiroshi Shirai, Guest Editors-in-Chief

Masahiko Nishimoto (*Member*) received the B.E. degree in Electronic Engineering from Kumamoto University, Japan, in 1982, and M.E. and D.E. degrees in Computer Science and Communication Engineering, from Kyushu University, Fukuoka, Japan, in 1984 and 1987, respectively. Since 1987 he has been with a department of Electrical Engineering and Computer Science, Kumamoto University, where he is currently a Professor. From 2009 to 2010, he served as IEEE AP-S Fukuoka Chapter Chair, and from May 2011, he is the Chair of the Technical Committee on Electromagnetic Theory in Electronics Society of the IEICE. His research interests are in the area of radar signal processing, scattering and diffraction of electromagnetic waves, and computational electromagnetics.



Hiroshi Shirai (*Fellow*) Hiroshi received the B.S. and M.S. degrees in Electrical Engineering from Shizuoka University, Japan, in 1980 and 1982, respectively, and the Ph.D. degree from Polytechnic University, New York in 1986. Since April 1987, he has been with Chuo University, Tokyo, Japan, where he is currently a Professor and a Director of Admissions Center. He has been serving as a committee member of various technical societies and international meetings. He is now a Vice Chair of the Technical Committee on Electromagnetic Theory in Electronics Society of the IEICE. He received the R.W.P. King Best Paper Award from the Antennas and Propagation Society of the IEEE in 1987. His current research interests include wave propagation and diffraction in time harmonic and transient domains. Dr. Shirai is a Fellow of the Electromagnetics Academy, a senior member of the IEEE, and a member of Sigma Xi, the IEE of Japan, the ASJ, and the ASA.

