
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 2008 Symposium on Electromagnetic Theory, held at Takayama, Gifu, Japan on November 20–22, 2008. 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 2008-Hangzhou, PIERS 2008-Cambridge, and ISAP 2008 were also considered to be the parts of this special section. We received 16 papers and 5 brief papers, and 10 papers and 5 brief papers were accepted in this special section after careful review.

The accepted papers and brief papers may be categorized into 7 groups which include (1) Scattering and Diffraction, (2) Antenna, (3) Optical Waveguide, (4) Random Media and Rough Surfaces, (5) Remote Sensing, (6) Electromagnetic Compatibility and (7) Numerical Methods. 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 Masahiro Tanaka of Gifu University 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:

Secretaries:

Masahiro Tanaka (Gifu University)
Mitsuhiro Yokota (Miyazaki University)

Guest Associate Editors:

Hiroyuki Deguchi (Doshisha University)
Akimasa Hirata (Nagoya Institute of Technology)
Koichi Hirayama (Kitami Institute of Technology)
Akira Hirose (The University of Tokyo)
Kazuya Kobayashi (Chuo University)
Michiko Kuroda (Tokyo University of Technology)
Atsushi Kusunoki (Oita University)
Shinichiro Ohnuki (Nihon University)
Ryoichi Sato (Niigata University)
Koichi Takahashi (Aichi University of Technology)
Koki Watanabe (Fukuoka Institute of Technology)

Mitsuru Tanaka and Akira Komiyama, Guest Editors-in-Chief

Mitsuru Tanaka (*Member*) was born in Kitakyushu, on January 7, 1950. He received the B.E., M.E., and D.E. degrees in Communication Engineering from Kyushu University, Fukuoka, Japan, in 1973, 1975, and 1981, respectively. In 1975 he joined the Department of Computer Science and Communication Engineering, Kyushu University, as a Research Associate. He became an Assistant Professor at the Department of Electronic Engineering, Oita University, Oita, Japan, in 1981, and was promoted to an Associate Professor in 1983. During October 1986 and July 1987, he was a Visiting Associate Professor in the University of Illinois at Chicago, IL, USA. Since 1993 he has been a Professor at the Department of Electrical and Electronic Engineering, Oita University. From January 2008 to September 2009, he was the Dean of the Faculty of Engineering at Oita University. From October 2009 he has been the Trustee and Vice President of Oita University. He received the ISAP 2000 Paper Award at the International Symposium on Antennas and Propagation in 2000. His research interests are in electromagnetic direct/inverse scattering, optical computed tomography, and electromagnetic wave interaction with artificial media. Dr. Tanaka was the Chair of the Technical Committee on Electromagnetic Theory in Electronics Society of the Institute of Electronics, Information and Communication Engineers (IEICE) in Japan.



Akira Komiyama (*Member*) was born in Shizuoka, Japan, on January 31, 1953. He received the B.E., M.E. and D.E. degrees in Electrical Engineering from Meiji University, Tokyo, Japan, in 1975, 1977 and 1985, respectively. Since 1986, he has been with Osaka Electro-Communication University, Neyagawa, Japan, where he is presently a Professor of the Department of Lightwave Sciences. His current research interests are in the localization and diffusion of light in waveguide systems and optical fibers allowing the direct transmission of optical images. Dr. Komiyama is currently the Chair of the Technical Committee on Electromagnetic Theory in Electronics Society of the Institute of Electronics, Information and Communication Engineers (IEICE) in Japan.

