

FOREWORD

Special Section on Recent Progress in Antennas and Propagation in Conjunction with Main Topics of ISAP2012

The 2012 International Symposium on Antennas and Propagation (ISAP2012), the 17th ISAP, sponsored by the Communications Society of the IEICE and held at Nagoya Congress Center in Nagoya, Japan, on October 29 to November 2, 2012 was a great success. This symposium provided an international forum for exchanging information on recent progress of research and development in antennas, propagation, electromagnetic wave theory, and the related fields. For this symposium, 453 technical papers were submitted from 35 countries and regions, and 417 papers were accepted after the review process by the ISAP2012 Technical Program Committee. 381 papers were presented and 567 people attended the symposium from 31 countries and regions. The objective of this Special Section is to discuss the antenna and propagation technologies including progressing technologies for MIMO, LTE, PAN/BAN, and wireless power transmission and so on. This special section includes submissions particularly from, but not limited to, the authors of ISAP2012. For this section, 45 papers from 11 countries and regions were submitted. After careful review, 25 papers were accepted. Furthermore, this section includes 4 invited papers on modeling of metamaterials, metamaterial antenna, computational electromagnetics and MIMO system.

I hope that this special section will encourage researchers and will promote future research activities in the relevant fields of study. I am grateful to the IEICE Communications Society for deciding to publish this special section and for their continuous support. Finally, I would like to express my sincere appreciation to all the authors for their excellent contributions, and to the reviewers and the editorial committee members for their great effort to make this special section successful.

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Hiroyuki Arai (Fellow) received the B.E. degree in Electrical and Electronic Engineering, M.E. and D.E. in Physical Electronics from Tokyo Institute of Technology in 1982, 1984 and 1987, respectively. Now he is professor in Department of Electrical and Computer Engineering, Yokohama National University. He investigated microwave passive components for high power handling applications such as RF plasma heating in large Tokamaks. He developed a flat diversity antenna for mobile telephone terminal, a polarization diversity base station antenna for Japanese PDC systems, small base station antennas of In-building micro cellular system and DOA estimation for cellular system. His current research interest includes MIMO antennas, wireless power transmission, energy harvesting in EM waves and EMC/EMI antennas. He received the Young Engineers Award from the IEICE of Japan in 1989 and the "Meritorious Award on Radio" by the Association of Radio Industries and Businesses in 1997, 2006 and 2011. He was editor-in-chief of IEICE Transactions on Communications, 2005–2007, chair of IEEE AP-S Japan Chapter, 2009–2010, and associate editor of IEEE Transactions on Antennas & Propagation, 2010–2013. He is currently chair of Technical Group on Antennas and Propagation of IEICE, and Fellow of IEICE and IEEE.

