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## FOREWORD

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### Special Section on Recent Progress in Microwave and Millimeter-Wave Technologies

Recent rapid growth of microwave and millimeter-wave technologies are astonishing and demands for the technologies are accordingly increasing to higher levels in a diverse range of next generation's electromagnetic wave applications such as high-speed wireless communications, wireless power transmissions, multi-functioned radars/sensors, and the like. In order to accelerate the growth of the technologies to meet the demands, Korea-Japan microwave conference 2009 (KJMW2009) has been held in Jeju Island, Korea on April 2009, as well as to exchange friendship among scientists/engineers in the field in Korea, Japan and other countries. Throughout the conference, it has been revealed that circumstances of the research and development fields are changing drastically from material level to application level and there have appeared many emerging technologies which lead the recent advancement.

This special section is devoted to those who have immensely contributed to the advancement of the microwave and millimeter-wave technologies. Thirty-six regular and brief papers have been submitted, and twenty-three regular papers and two brief papers have been accepted for publication through the regular reviewing process by the Editorial Committee. The topics of the papers cover emerging microwave theory and techniques of active and passive circuits and devices, antennas, microwave measurements, and the like. The Editorial Committee have invited a paper by Dr. Ikuo Awai on an innovative spurious suppression technique of BPFs which would be a possible another path of designing wideband circuits.

I would like to thank all of the authors for submitting papers. I would also like to express my gratitude to the Editorial Committee members who have extensively contributed in editing this section and to all of anonymous reviewers for their devoted services. Finally, special thanks are addressed to the members of the IEICE publication department.

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Atsushi Sanada, Guest Editor

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**Atsushi Sanada** (*Senior Member*) received his B.E., M.E. and D.Eng. degrees in electronic engineering from Okayama University, Okayama, Japan, in 1989, 1991 and 1994, respectively. In 1999, he joined the Faculty of Engineering, Yamaguchi University, where he is now an Associate Professor. He was a Visiting Scholar at the UCLA in 1994–1995 and 2002–2003. He was also a Visiting Scholar in ATR, Japan in 2004–2005 and NHK Science and Technology Research Laboratories, Japan in 2005. He is currently a Visiting Professor of Graduate School of Engineering, Hosei University since 2009. His research is concerned with metamaterials, magnetic and superconducting materials for microwave devices. Dr. Sanada is a member of the Institute of Electrical and Electronics Engineers (IEEE) and the European Microwave Association (EuMA).

