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## FOREWORD

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### Special Section on Microwave and Millimeter-Wave Technology

As you may know the 2014 Asia-Pacific Microwave Conference has been held successfully in Sendai, Miyagi Pref. with more than 760 participants and a total of 524 accepted papers from 36 countries. This special section was planned to cover and publish the advanced and latest achievements in microwave and millimeter-wave technologies presented at APMC 2014.

The growth of wireless communication systems and wireless power transfer systems are very fast and a variety of new services have been widely and quickly spread all over the world. These systems and services need inevitably advanced RF technologies especially for versatile, compact and low power consumption devices. Therefore, this special issue covers the latest results in this field.

The editorial committee has selected 16 excellent papers, which include 6 invited papers, for publication from 24 submissions. The invited papers highlight historical milestones in microwave field at Tohoku University, planar filter technologies, and energy harvesting/wireless power transfer technologies. Japanese microwave industry activities and wireless communication systems for disaster recovery operations are also introduced as an invited paper. The accepted papers cover original research results relating to filters, VCO's, power amplifiers, receivers, antennas, and switches.

I would like to express my appreciation for the effort by each of three Secretaries and 12 Guest Associate Editors. I would also like to acknowledge the authors who submitted their papers and reviewers for their great contributions.

Finally I greatly appreciate Dr. Yo Yamaguchi' works for this special section.

Special Section Editorial Committee:

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(Mitsubishi Electric), Tadashi Kawai (University of Hyogo)

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Kenjiro Nishikawa, Guest Editor-in-Chief

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**Kenjiro Nishikawa** (*Senior Member*) received the doctor degree from Osaka University in 2004. Since 2011 he has been a professor at Kagoshima University. He joined the NTT Wireless Systems Laboratories, Nippon Telegraph and Telephone Corporation in 1991, where he was engaged in research and development of Multilayer/3D MMIC on GaAs and Si, millimeter-wave system-in-package, and high-speed wireless communication systems. His research interests are in wireless power transfer systems, THz integrated circuits, low-power/high-efficiency circuit design techniques, wireless sensor systems, and so on. Dr. Nishikawa is a member of IEEE.

