FOREWORD

Special Section on Next-Generation Mobile Multimedia Communications

The field of technology known as Mobile Multimedia Communications has received much attention since the late 1990s and many research efforts have targeted this area for more than ten years. With the launch of the 3G mobile network in 2001, the last ten years can be characterized as the dawn of mobile multimedia communications. With the rapid growth in various types of mobile infrastructure such as 3.5G cellular networks, mobile WiMAX, and wireless LANs, actual mobile multimedia services have become quite commonplace, and it is time to strive toward more advanced mobile multimedia communications.

The technical committee on mobile multimedia communications (MoMuC) has organized the "Special Section on Mobile Multimedia Communications" five times thus far to cover emerging technological areas. This time, we are focusing in particular on the advent of ultrahigh-speed mobile networks such as IMT-Advanced, and we called for papers on the "Next-Generation" Mobile Multimedia Communications.

In response to this special section, 32 papers and 6 letters were submitted. The editorial committee finally selected 12 papers and one letter through a careful and fair review process. The selected papers cover technological areas of multimedia coding, network selection and multi-homing, IP mobility, mesh network, resource management, and cross layer optimization in mobile communications.

The editorial committee hopes that these high-level papers will contribute to mobile technologies and market progress. As the guest editor-in-chief, I would like to express my sincere appreciation to all the authors for their contributions and to all the editorial committee members for their hard work in the review process.

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Tomoyuki Ohya, Guest Editor-in-Chief

Tomoyuki Ohya *(Member)* received his B.E. and M.E. degrees in electronic engineering from Kyoto University in 1986 and 1988 respectively, and his M.S. degree in management of technology from Massachusetts Institute of Technology in 2000. He joined Nippon Telegraph and Telephone Corporation (NTT) in 1989, and since 1992, he has been working at NTT DoCoMo. He was engaged in the research and development of digital speech signal processing technologies, including standardization and commercialization of speech codecs for the 2nd generation Personal Digital Cellular (PDC) and the 3rd generation mobile communications system IMT-2000. From 1996, he participated in the international standardization on mobile multimedia communications in the ITU-T, ETSI, and 3GPP, and served as a vice-chairman of 3GPP Task Group SA4 codec during 2001–2003. He also participated in the MPEG-4 international standardization activity, and focused his research and development projects on moving picture and audio coding for IMT-2000. He is now a director of the wireless networking research group in NTT DoCoMo and is responsible for the research on wireless communications technologies for the future mobile communications systems. Since 2007, he has been serving as chairman of the technical committee on mobile multimedia communication (MoMuC) in the IEICE. He received the Young Engineer Award from the IEICE in 1995. He is a member of IEEE, and ASJ.

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