
FOREWORD

Special Section on Quality of Communication Networks and Services

With the spread of technologies for high-quality voice and video communications, everyone has been able to communicate with voice and video more easily and enjoy high-quality video contents through communication networks. Also, an environment in which terminals using haptic interface devices, home information appliances and sensor devices are connected to networks across fixed and mobile communication boundaries will come true. Under these circumstances, users are expected to demand higher quality and reliability for voice, video and data communications, and other communication services including multi-sensory media. To meet such user expectations, it is important to establish technologies for measuring, assessing and controlling the quality and reliability of communication networks, and those for measuring, assessing and controlling the quality of multi-sensory media considering user experience and user psychology.

This special section aims at timely dissemination of research in quality of communication networks and services. We had received 28 submissions, about half of which came from outside Japan. After careful review and discussion, the editorial committee finally selected seven papers and two letters.

The selected papers and letters mainly cover technological areas of QoE (Quality of Experience) assessment, objective quality assessment, QoS (Quality of Service) control, and information security. This special section also invited one paper that presents an end-to-end reference QoS architecture for IEEE 802.11 wireless LANs. The editorial committee hopes that this section will contribute to progress of R&D activities on quality of communication networks and services.

Finally, as the guest editor-in-chief, I would like to express my sincere appreciation to all the authors for their contribution and to all the reviewers and all the members of the editorial committee for their great effort in the review process.

Special Section Editorial Committee Members

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Yutaka Ishibashi, Guest Editor-in-Chief

Yutaka Ishibashi (*Member*) received the B.E., M.E., and Dr.E. degrees from Nagoya Institute of Technology, Nagoya, Japan, in 1981, 1983, and 1990, respectively. In 1983, he joined the Musashino Electrical Communication Laboratory of NTT. From 1993 to 2001, he served as an Associate Professor of Department of Electrical and Computer Engineering, Faculty of Engineering, Nagoya Institute of Technology. Currently, he is a Professor of Department of Scientific and Engineering Simulation, Graduate School of Engineering, Nagoya Institute of Technology. His research interests include networked multimedia, QoS (Quality of Service) control, and media synchronization. He was the Chair of the IEICE Communication Quality Technical Committee (2007–2009). He is a member of IEEE, ACM, IPSJ, ITE, and VRSJ.

