
FOREWORD

Special Section on Challenged Networking Technologies and Its Service Quality

To expand reachable areas of the Internet, challenged networking technologies are assuming a significant role. In challenged networking technologies, various attractive and feasible approaches have been proposed so far. Recently, many studies have been trying to adapt them to real environments, such as disaster area and car environments. Because the challenged networking technologies have different features from current end-to-end communications, they will be required to integrate with existing networking technologies and to bring novel applications and services. In order to achieve them, it is important to support various research activities of challenged networking technologies such as their applications, services, communication protocols, security, simulation tools and analysis, testbed. The Technical Committee on Communication Quality (CQ) of the IEICE has organized the “Special Section on Challenged Networking Technologies and Its Service Quality”, with the purpose of accelerating research activities on this field.

In response to this special section, advanced and attractive 14 papers were submitted. The editorial committee selected seven papers including two invited papers through very careful and fair review process. The selected papers cover the interesting technological areas of Delay/Disruption Tolerant Network and Mobile Ad-Hoc Network.

On behalf of the editorial committee, we would like to sincerely thank all of the authors, the reviewers, and the IEICE publishing office who supported this special section. Also, we hope that these sophisticated papers will greatly contribute to the development of challenged networking technologies field. Thank you very much, again.

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Akira Takahashi, Guest Editor-in-Chief

Akira Takahashi (*Member*) received a B.S. degree in mathematics from Hokkaido University in Japan in 1988, M.S. degree in electrical engineering from the California Institute of Technology in the U.S. in 1993, and Ph.D degree in engineering from the University of Tsukuba in Japan in 2007. He joined NTT Laboratories in 1988 and has been engaged in the quality assessment of audio and visual communications. Currently, he is the Manager of NTT Network Technology Laboratories. He has been contributing to ITU-T Study Group 12 (SG12) on QoS, QoE, and Performance since 1994. He is a Vice-Chairman of ITU-T SG12, a Vice-Chairman of Working Party 3 in SG12, and a Co-Rapporteur of Question 13/12 for 2009–2016 Study Periods. He received the Telecommunication Technology Committee Award in Japan in 2004 and the ITU-AJ Award in Japan in 2005 and 2013. He also received the Best Tutorial Paper Award from IEICE in Japan in 2006, Communications Society: Outstanding Contributions Award from IEICE in Japan in 2015, the Telecommunications Advancement Foundation Awards in Japan in 2007 and 2008, TTC Chairman Award in 2016.

