# FOREWORD

## Special Section on Recent Progress in Networking Science and Practice in Conjunction with Main Topics of ITC32

The international teletraffic congress (ITC) is the first international conference in networking science and practice. Since 1955, ITC has established a multi-decade tradition as the primary forum for presenting and discussing the latest technical advances in teletraffic models, network systems, and measurements. The ITC32 is the 32nd edition of this congress and was successfully held virtually September 22–24, 2020. The research on the network science and practice, especially on the modelling, design and performance of communication systems, networks and services were presented at ITC32. This special section aims at timely dissemination of progressing research fields in networking science and practice.

After a careful discussion, the editorial committee has arranged invited papers from keynote speaker, award recipient, and selected paper authors from ITC32. This special section consists of three invited papers on performance modeling of Bitcoin blockchain, Network Calculus Analysis, and scheduling analysis.

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 editors and reviewers for their voluntary activities.

Special Section Editorial Committee Members
Guest Editors:
    Yuichi Ohsita (Osaka Univ.)
    Chisa Takano (Hiroshima City Univ.)
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Hideyuki Shimonishi, Guest Editor-in-Chief

**Hideyuki Shimonishi** (*Senior Member*) received M.E. and Ph.D. degrees from the Graduate School of Engineering Science, Osaka University, Osaka, Japan, in 1996 and 2002. He joined NEC Corporation in 1996 and has been engaged in research on traffic management in high-speed networks, switch and router architectures, and traffic control protocols. As a visiting scholar in the Computer Science Department at the University of California at Los Angeles, he studied next-generation transport protocols. Since then, he engaged in researches on networking technologies including SDN, NFV, IoT, 5G mobile systems. Especially, he has been leading early SDN research with Stanford university and contributed to the world first commercialization of OpenFlow networks. Now he works as a senior principal researcher at System Platforms Research Labs. NEC Corp and executive expert at new business creation division, network services business unit, NEC Corp. Since 2020, he has also been appointed as a full-time specially appointed professor at Graduate School of Information Science and Technology, Osaka University. He has received many awards including Young Researcher's Award and Achievement Award from IEICE, He is a member of IEICE and IEEE.