
FOREWORD

Special Section on Towards Management for Future Communications and Services in Conjunction with Main Topics of APNOMS2022

The technological evolution of communication networks is rapidly progressing towards Beyond 5G/6G and all-photonics networks era. In addition, new concepts, including cloudification, softwarization and the application of artificial intelligence (AI), have been introduced to the network and service management field. These evolution and transformation pose new challenges in the management for the future communications and services.

This special section is aimed to accelerate the research and development of the management for the future communications and services by encouraging paper submissions on the new proposals, implementations, operations, and technical progresses.

This section is in conjunction with main topics of APNOMS2022. The Asia-Pacific Network Operations and Management Symposium (APNOMS) is the premier conference on network operations and management in the Asia-Pacific region. Since 1997, APNOMS has provided a forum for the research, standards, development, systems integrator, vendor and user communities in network operations and management. The APNOMS2022 was held in Takamatsu, Japan on September 28th–30th, 2022.

For this section, 10 high-quality papers were received, and 4 papers were accepted. This includes two invited papers discussing the artificial intelligence technologies for Beyond 5G/6G networks, and a latest progress in the nationwide 400-Gbps backbone network for research and education.

As a guest editor-in-chief, I would like to express my sincere appreciation to all the authors for their contributions, the reviews, the editors, and the IEICE publishing office who supported this section.

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Eiji Takahashi, Guest Editor-in-Chief

Eiji Takahashi (*Senior Member*) received his B.E. and M.E. degrees in electrical engineering from Waseda University in 1998 and 2000, respectively. He received his Dr. of Sci. in global information and telecommunication studies from Waseda University in 2003. He was a research associate at Global Information and Telecommunication Institute, Waseda University from 2000 to 2004. He was also a visiting industrial fellow at University of California, Berkeley from 2009 to 2010. He is with NEC since 2004. His research interests include mobile network measurement, analytics, and optimization. He is an expert member for Technical Committee on Information and Communication Management (ICM).

