# FOREWORD

## Special Section on Towards Management for Future Communications and Services in Conjunction with Main Topics of APNOMS2021

The technological evolution of communication networks is rapidly progressing towards Beyond5G/6G and all-photonics networks. In addition, drastic changes are occurring to adapt to the new communication styles in the Post-COVID19 Era. This evolution and transformation pose new challenges in network and service management for the future communications and services.

This special section is aimed to promote research and development of management for future communications and services, and is also intended to contribute to accelerate and progress the research by encouraging the new proposals, implementation, operation and technical results.

This section is in conjunction with main topics of APNOMS2021. APNOMS (The Asia-Pacific Network Operations and Management Symposium) 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. APNOMS2021 was held as a virtual conference on September 8th-10th, 2021.

For this section, 26 high-quality papers were received, and 12 papers were accepted. This section includes one invited paper from APNOMS 2021 keynote session and 11 papers from APNOMS 2021 papers or network operations and management areas.

As the 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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**Haruo Oishi** (*Senior Member*) received the B.E and M.E. degrees in Electrical Engineering from Tokyo Institute of Technology in 1995 and 1997. He received Ph.D. degree in Computer Science and Communications Engineering from Waseda University in 2022. He joined Nippon Telegraph and Telephone Corporation in 1997. Since then, engaged in R&D on educational technology, mobile PC middleware technology, business ethernet service management system development, network failure estimation technology, and business navigation technology. Presently works at Access Network Service System Laboratories, Nippon Telegraph and Telephone Corporation, as the leader of the Access Operation Project Navigation Technology Group. He is a senior member of IEICE and a vice chair of Technical Committee on Information and Communication Management (ICM).