FOREWORD

Special Section on the Architectures, Protocols, and Applications for the Future Internet

The Internet has been established as a social infrastructure with rapid growth from just a communication tool for academic researchers, the emergence of the World Wide Web, and the spread of multimedia information processing. PCs and smartphones, smart meters, in-vehicle devices, sensors, and many other things are connected to the Internet; a wide variety of traffic goes through the Internet. In addition, artificial intelligence technologies, such as deep learning, are being applied in various fields and becoming commoditized, changing the architecture of the Internet. Because of the importance of proposing and demonstrating new architectures and application technologies necessary for the Internet to fulfill its role in the future, we have planned this special section.

We have received five papers in response to the call for papers on this special issue. Then, two papers were accepted for publication through the rigorous and objective peer review process. In addition, Dr. Yamamoto, who has received numerous awards from the technical committee on Internet architecture, where our research community, has summarized his latest research results in the invited paper. Hopefully, all the papers in this special section will provide readers with an insightful view and stimulate research minds toward the future Internet.

We appreciate all the authors for submitting valuable papers and all the reviewers for their voluntary work.

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Ismail Arai, Guest Editor-in-Chief

Ismail Arai *(Member)*   is an associate professor affiliated with Information Initiative Center, Nara Institute of Science and Technology, since 2016. He received M.E. and Ph.D. in engineering from the Graduate School of Information Science, Nara Institute of Science and Technology, in 2004 and 2008, respectively. He was affiliated with Ritsumeikan University and National Institute of Technology, Akashi College 2008–2011 and 2011–2016, respectively. He is a senior member of IPSJ and also a member of ACM and IEEE. His research topics are transportation data analysis, pedestrian navigation systems, cybersecurity, and open data.