
FOREWORD

Special Section on Deployment and Operation of New Internet Technology: Challenges and Approaches

While the Internet has been becoming an indispensable social infrastructure, new Internet technologies should be still developed and deployed to provide secure, safe and convenient use of the Internet. Recently, however, we have observed that new Internet technologies are difficult to deploy. This is the dilemma that the success of wide deployment itself hinders deployments of new technologies. To overcome this difficulty, there have been many studies on the clean-slate approach. This special section; on the other hand, focuses on the evolutionary approach and solicited papers.

Needless to say, standardization is the key factor for deployment. Prof. Nevil Brownlee provided the invited paper on the standardization of IP Flow Information Export (IPFIX), a flow-based measurement technology, at IETF. The paper is not only an excellent introduction to IPFIX, but also a good example on how new technology is developed and deployed in a standardization group because it includes many design choices by the group.

Other than the invited paper, 32 papers were submitted to the section (25 full papers and 7 letters). After careful review process, 8 papers were selected for publication.

Finally, as the guest editor-in-chief, I would like to express appreciation to the authors, reviewers, guest editors, Dr. Hiroshi Mineno, and Dr. Yoshinori Kitatsuji for their contribution to the special section.

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Keisuke Ishibashi (*Senior Member*) received his B.S. and M.S. in mathematics from Tohoku University in 1993 and 1995, and his Ph.D. in information science and technology from The University of Tokyo in 2005. Since joining NTT in 1995, he has been engaged in research on traffic issues in computer communication networks. He is a member of the IEEE and the Operations Research Society of Japan.

