Editor’s Message to Special Issue of
the Internet and Operation Technologies by
Constructing Resilient Information Systems

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In today’s information-oriented society, information and communication networks and distributed systems represented by the Internet are essential to our lives as basic technologies supporting social infrastructure. Therefore, in order to ensure continuous and stable operation of such information systems, it is necessary to prepare for sudden damage including natural disasters and security measures against human attacks. In these measures, the system is multiplexed and redundant in order to avoid malfunction of the entire information system due to some malfunction, but the ability to quickly recover the function of the information system is also required from the failures. By enhancing resilience of such information systems, it is possible to realize a robust and flexible information system for disasters, failures and attacks.

In this special issue, we published papers on the latest research, development, experiment, and operation for the construction and utilization of the future information and communications infrastructure. We aimed to contribute to the development of various operation technologies related to the Internet and other network systems, and planned/edited mainly by IPSJ SIG IOT (Internet and Operation Technology).

In this special issue, we received 13 submissions and peer review was advanced mainly on special edition committee consisting of 19 members. To the editorial committee, by inviting program members of the 10th Internet and Operation Technology Symposium (IOTS 2017) held on the same theme as this special issue, we were able to promote submitting a paper based on the presentation of IOTS 2017.

In addition, in accordance with this special issue, “advice to a draft” was carried out, and efforts to improve the quality of the submissions at the first judgment. As a result, we succeeded in raising the final acceptance rate of papers to 61%, and we have accepted 8 papers for publication.

Finally, I would like to thank all of the authors for their contributions. I also would like to express my sincere gratitude to all the members of the editorial committee, who made great efforts to complete this special issue. I would like to expect that this special feature will be useful information for readers and will contribute to the development of information and communication technology in the future.

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