Editor's Message to Special Issue of Computer Security Technologies for Digital Transformation

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Digital transformation, the use of data and new digital technologies to enable major improvements to products, services, and business models based on the needs of customers and society, is accelerated. Cyber-attacks targeting confidential information and personal information are becoming highly sophisticated in a situation where all information around daily life are distributed over the network, and it is managed and processed on clouds or smartphones. In order to realize better services that are essential for daily life, more technical innovation in computer security technology is required not only to respond to attacks, but also to establish foundation for creating new value.

This special issue focuses on security technologies supporting the digital transformation. We designed this special issue with the aim of contributing to the further development of security technologies as a social infrastructure through far reaching and in-depth discussions of not only basic theories and implementation technologies but also of problems and solutions that take behavioral and social sciences into account.

Of the 36 papers submitted for this special issue, the Editorial Committee accepted 22 papers including 11 papers in English after careful review. The acceptance rate was therefore 61%, which was relatively high compared to that of recent special issues. We owe this to the sound advice given to the authors by the members of the Editorial Committee and reviewers as well as to the results of the authors' sincere efforts, to all of whom we extend our deep appreciation.

Furthermore, as invited papers for this special issue, Naohiko Uramoto of Mitsubishi Chemical Holdings Corporation wrote about opportunities and risks for digital transformation.

It would give us great pleasure if the content of these papers contributes in some way to better design approach for creating new business models, product services.

Finally, we owe the completion of this special issue within a limited time and its publication on schedule to the high-quality reviewing and editorial work and overall efforts of the Editorial Committee, the reviewers, the authors of the invited papers, and all concerned in IPSJ. We are deeply grateful to one and all. We would also like to extend our deep appreciation to Yuji Watanabe of IBM Japan and Kenichi Takahashi of Tottori University for their dedicated efforts guiding the work of the Editorial Committee for this special issue.

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