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Editor's Message to Special Issue of Computer Security Technologies for a Super Smart Society

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As network technologies continue to evolve and computers become increasingly powerful and small in size, network-connected sensors are coming to be found just about anywhere in the world. This development is enabling people to enjoy beneficial services at anytime and anyplace in their lives. However, this also means that all kinds of information related to life including personal information are being circulated through the network and managed and processed by computers. As a result, cyber crimes that aim to steal that information are becoming increasingly diverse and sophisticated in their techniques. Since we are all coming to live in a "super smart society" in which cyber space and real space are highly intertwined, computer security technologies will not only serve to protect our lives but also to drive technical innovation on a daily basis as a technology infrastructure for creating new value.

This special issue focuses on security technologies supporting the super smart society as well as security technologies for creating new value with an eye to the super smart society and beyond. 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 38 papers submitted for this special issue, the Editorial Committee accepted 19 papers including 3 papers in English after careful review. The acceptance rate was therefore 50%, 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, Goichiro Hanaoka, Takahiro Matsuda, Shota Yamada, and Yusuke Sakai of the National Institute of Advanced Industrial Science and Technology (AIST) wrote about research trends in advanced cryptosystems, an up and coming field. It would give us great pleasure if the content of these papers contribute in some way to the appropriate use of highly confidential data such as personal information.

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 Toshihiro Ohigashi of Tokai University and Yuji Watanabe of IBM Japan for their dedicated efforts guiding the work of the Editorial Committee for this special issue.

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