Editor’s Message to Special Issue of
Toward Realizing Trusted Infrastructure by
Security Technology and Human Resources for It

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We will have the Olympic Games in Tokyo in 2020. Now, improving security and trust of various social scene is a matter of great urgency, and it becomes significant more and more. Similarly, in the area of computer, software and network, achieving security and trust is also significant. On the other hand, from economic viewpoint, virtual currency appeared and they established trust based on information technology not based on nation nor law system. In the change of situation like above, a shortage of human resources for security is pointed out, and developing them are strongly expected.

Various countermeasures against incidents caused by human’s thought or human’s behavior are required to achieve security and trust. For example, defense against attackers who take advantage of the user’s psychological condition, mitigating or improving user’s psychological condition like burden of security and trust, countering against incidents caused by attacks with psychological effects, are required. However, because attack techniques change quickly, continuous developing of security and trust technology is important.

Under these circumstances, we aim at developing human resources and new technologies to achieve the requirements. On this special issue of Toward Realizing Trusted Infrastructure by Security Technology and Human Resources for It, we focus on papers that describe such security and privacy studies considering internet of things and human factor in terms of authentication techniques, trust of techniques, usability, economics, computer-supported collaboration, and so on.

The special issue received 24 submissions. The editorial committee reviewed, discussed, judged and commented carefully along with the review criterion of IPSJ and with the following viewpoints:

• Circulating knowledge of research results achieved by companies, research institutes or universities, and encouraging further development of this research field.
• Developing human resources.

As a result, 9 papers were accepted, including a paper written in English. Acceptance ratio was 37.5%. Based on the above two viewpoints, we had targeted to more high acceptance ratio. However, we believe that the accepted papers are high quality.

Finally, a number of people contributed to the success of this special issue. We would like to thank the authors for submitting their papers to the issue. The selection of the papers was a challenging and dedicated task, and we are deeply grateful to the members of the editorial committee and the external reviewers for their indepth reviews and detailed discussions. We are also grateful to staffs of IPSJ. Last but not least, we would like to thank the editorial board, Masato Terada and Masue Shiba, for their efforts to ensure the smooth editing and publishing.

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