Call for Papers for JIPS Special Section:

Light-Weight Authentication, Security, Trust Computing for IoT

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Journal of Information Processing Systems

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The Journal of Information Processing Systems (JIPS) is the official international journal of the Korea Information Processing Society. As information processing systems are progressing at a rapid pace, the Korea Information Processing Society is committed to providing researchers and other professionals with the academic information and resources they need to keep abreast with ongoing developments. The JIPS aims to be a premier source that enables researchers and professionals all over the world to promote, share, and discuss all major research issues and developments in the field of information processing systems and other related fields.

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Special Section on Light-Weight Authentication, Security, Trust Computing for IoT

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New cyber threats and security issues have occurred due to the recent rapid increase of users of smart home, mobile cloud, and wearable devices. The security issue affects the vulnerability of IoT as well. IoT services form a connected environment with embedded devices, smart devices, personal computers, wireless networks, cloud computing, and so on, and a security vulnerability among even one of these elements may expose the overall system to risks. In addition, they depend upon a variety of ICT technologies more and more, including mobile devices, cloud computing, IoT and so on, according to the progress of internet technology, and multiple services using various devices are provided in various environments according to the technological advancement. The IT industry, research community, and so on, tend to concentrate on new research topics such as encryption technology or personal information protection technology that are easy to expand, lighten the weight, and distribute. This trend is represented in block chain technology, which is a method of distributed consensus. Many changes have been remarkable, especially in the authentication and encryption technologies that were once centralized and heavy. Hence, studies on this security technology should be more emphasized considering new environment in the near future.

To overcome the threats and problems, seamless studies on light-weight authentication are required, considering a variety of different environments. These technologies will enable us to trust the infrastructure for the upcoming 4th Industrial Revolution. This special session attempts to highlight some of the recent research and development that addresses issues related to these motivations.

▶ Subject Coverage

We are soliciting original papers on theories, methodologies, models, technologies, systems, services, tools, applications, works in progress, and experiences that focus on technologies in the areas of cryptography, security and privacy. This special session aims to provide a forum that brings together researchers from academia, engineers working in the industries listed above, and the government to meet and exchange ideas on advanced technologies, services, and applications in cryptography, security and privacy. Topics of interest include, but are not limited to:

- Algorithmic Regulation
- Applications, Business, Standards, and Social Issues
- Architecture and Infrastructure
- Big data
- Building and Home Automation
- Cloud manufacturing
- Cloud-based design and manufacturing
- Computer Networks and Distributed Systems
- Data Distribution Service
- Digital Object Memory
- Distributed Sensing and Control
- Distributed Systems and Parallel Computing
- Energy Management
- Environmental Monitoring
- Industrial Applications
- Infrastructure Management
- Intelligent Data Processing and Ubiquitous Computing
- Intelligent Systems and Management
- Internet of Things and Smart City
- Large Scale Deployments
- Medical and Healthcare Systems
- Networks and Communications
- Networks and Distributed Systems

- Predictive Manufacturing System

- Privacy, autonomy and control

- Real Time and Embedded Systems

- Reliability, Security, Privacy and Trust

- System Design Modeling and Evaluation

- Wearable technology

- Web of Things

▶ Submission Guidelines

Papers must be submitted to the ManuscriptLink service:https://www.manuscriptlink.com/journals/jips

It is important that you select "**Special Issue/Section Track**" and "**Light-Weight Authentication, Security, Trust Computing for IoT**" when you reach the "Basic Information" step in the submission process. Prior to submitting your papers, we strongly recommend that you read the JIPS submission guidelines.

▶ Editors

Prof. Jungho Kang, Ph.D.
Department of Information Security
Baewha Women's University
Seoul, Korea
kjh7548@naver.com

Prof. Jin Wang, Ph.D.
School of Computer & Communication Engineering
Changsha University of Science & Technology
Changsha, China
jinwang@csust.edu.cn

▶ Important Dates

- Manuscript submission due: Aug. 31, 2018 -> Nov. 30, 2018 (tentative)
- Author notification: Sep. 30, 2018 -> Dec. 31, 2018 (tentative)
- Expected publication date: 4_{rd} quarter, 2018(tentative) -> 1st quater, 2019 (tentative)