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Privacy and Security for Resource Constrained IoT Devices and Networks

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Message from the Guest Editors

Dear Colleagues,

With the exponential growth of the Internet of Things (IoT) and cyber-physical systems (CPS), a wide range of IoT applications have been developed and deployed in recent years. To match the heterogeneous application requriements in IoT and CPS, many resource-constrained IoT devices are deployed, in which privacy and security have emerged as a big challenges because they have not been designed to have effective security features.

Despite the fact that many security solutions have been developed for the Internet, there are major concerns regarding the resource-constrained environments in IoT, including data encryption, privacy-preservation, vulnerabilities, threats, attacks, controls, etc. To address these privacy and security challenges, appropriate technologies have to be developed for resource-constrained environments in IoT.

This Special Issue aims to unveil and address the privacy-preservation and security issues and challenges in IoT and CPS. Suggested topics include, but are not limited to, the following.

- Secure data sharing in IoT and CPS
- Secure computation in resource constrained environment
- Location privacy in IoT and CPS
- Lightweight cryptography for low-resource devices in IoT and CPS
- Searable encryption
- Access control in IoT and CPS
- Key mamagement
- Information diffusion
- Privacy and security in mobile devices and networks
- Forensics in IoT and CPS
- Privacy and security in healthcare-related IoT and CPS
- Human aspects of security and privacy issues
- Secure authentications of devices

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Special Issue

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Editor-in-Chief

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