Special Issue

New Trends for Securing the Internet of Things

Message from the Guest Editors

The Internet of Things (IoT) is one of the most important emerging technologies.Communication links in the IoT environment can be compromised by attackers; hence, utilization of cryptographic primitives has been essential to build secure communication protocols. The method of implementing and storing of cryptographic primitives on IoT devices has significantly grown in importance. Physically Unclonable Functions (PUFs) have been proposed as the most promising tools concerning physical security for IoT. PUF is a "unique hardware fingerprint" that can produce unique identities per semiconductor devices like integrated circuits (ICs). This Special Issue seeks scientific research/implementations that contribute to the secure sensing, secure key generation, secure identification, efficient authentication, and secure communication with a standpoint of cyber/physical security in the IoT network. **keywords:** hardware security; cyber/physical security approaches for cyber-physical systems; efficient designing and implementation of PUFs; cryptographic protocols; machine learning and IoT security; attacks on and cryptanalysis of PUFs; blockchain-based protocols

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

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