Special Issue

Next-Generation Security Solutions for the Internet of Secure Things (IoST)

Message from the Guest Editor

The Internet of Things (IoT) has rapidly transformed sectors such as healthcare, transportation, industrial automation, critical infrastructure, and smart cities. However, IoT is highly vulnerable to cyber threats. To address these challenges, the Internet of Secure Things (IoST) as a security-focused paradigm is introduced and designed. This Special Issue especially aims to explore innovative IoST solutions. The topics include but are not limited to:

- Lightweight cryptography for resource-constrained IoST devices;
- Quantum-resistant cryptography for future-proof IoST security;
- Blockchain-based security for IoST networks;
- AI/ML for IoST security and anomaly detection;
- Decentralized trust models and privacy in IoST;
- Vulnerability detection and mitigation strategies for IoST;
- Secure key management and authentication in large-scale IoST systems;
- Zero-trust architecture for IoST networks;
- Decentralized learning for secure and private IoST data analysis;
- Energy-efficient security solutions for IoST;
- Cyber-physical system (CPS) security in IoST;
- AI-based threat detection and response for IoST security;
- Secure data sharing and storage management for IoST.

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Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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