



Security and Privacy in IoT Devices and Computing

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Deadline for manuscript
submissions:

15 January 2025

Message from the Guest Editors

Dear Colleagues,

The primary focus of this Special Issue is the real-world implications of cyber-attacks on IoT systems and the development of robust solutions to mitigate these risks. Topics include, but are not limited to:

- Device fingerprinting and machine learning-based device identification
- Federated learning for enhanced privacy and security
- Blockchain applications for securing IoT systems
- Intrusion detection mechanisms and malware analysis techniques
- Firmware security and third-party firmware evaluation
- Security considerations for narrowband IoT networks
- Methods for detecting zero-day vulnerabilities
- Security measures for communication protocols like BLE, ZigBee, and Z-Wave
- Privacy-enhancing techniques for MQTT and CoAP
- Quantum and post-quantum security solutions
- Security frameworks for IoT-based healthcare and agricultural systems
- Software-defined IoT network security
- Trust management and experimental testbeds for IoT environments
- Government and industry roles in ensuring IoT security
- Case studies highlighting successful and secure IoT deployments





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Message from the Editor-in-Chief

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