Special Issue

Security and Privacy for the Internet of Things and Wireless Sensor Networks

Message from the Guest Editor

Wireless Sensor Networks (WSNs) and the **Internet of Things (IoT)** are rapidly being deployed in smart homes, smart industries, smart health, and smart cities. The widespread adoption of these devices also increases the risks to security and privacy. This Special Issue aims to put together original and high-quality research and review articles on recent advancements, applications, and new challenges in the security and privacy of WSNs and IoT. Potential topics include but are not limited to the following:

- Authentication and authorization protocols.
- Lightweight data encryption algorithms.
- Privacy-preserving data aggregation.
- Homomorphic encryption and differential privacy.
- Federated learning techniques.
- Intrusion and anomaly detection for IoT and WSNs.
- Lightweight, on-device, or edge-based ML/AI models (e.g., anomaly detection) for identifying cyber-attacks.
- Adversarial AI in IoT.
- Blockchain for WSN and IoT.
- Physical-layer security.
- Fingerprinting IoT and WSN devices for authentication and authorization.
- Trust management techniques for zero-trust deployments for IoT and WSNs.
- Dynamic trust and reputation models for ad hoc and distributed sensor networks.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

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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