# Special Issue

# Securing the Internet of Things: Advances in Attack and Intrusion Detection Mechanisms

## Message from the Guest Editor

This Special Issue aims to bring together cutting-edge research and practical solutions focused on attack detection and intrusion prevention in IoT environments. We invite contributions that address the theoretical foundations, algorithmic innovations, and real-world implementations of security mechanisms tailored for IoT systems. Topics include, but are not limited to, the following:

- Machine learning and deep learning approaches for IoT intrusion detection;
- Lightweight and energy-efficient security mechanisms;
- Edge and fog computing-based threat detection;
- Blockchain and distributed ledger technologies for secure IoT;
- Zero-trust architectures in IoT networks;
- Privacy-preserving intrusion detection systems;
- Threat modelling and risk assessment for IoT;
- Secure firmware and software update mechanisms;
- Case studies and real-world deployments of IoT security solutions;
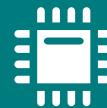- Adversarial attacks and defenses in IoT environments.

## Guest Editor

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## Deadline for manuscript submissions

15 September 2026

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### 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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