

## Special Issue

# Advances in Intrusion Detection for IoT Sensor Networks

### Message from the Guest Editors

The exponential growth of Internet of Things (IoT) sensor networks has enabled large-scale cyber-physical systems across smart cities, critical infrastructure, healthcare, industrial automation, and environmental monitoring. However, the same characteristics that make these systems powerful—massive scale, heterogeneity, decentralization, and resource constraints—also make them highly vulnerable to cyber intrusions. Traditional intrusion detection systems (IDS), designed for centralized and homogeneous networks, are increasingly ineffective in IoT sensor environments. This has driven rapid advances in data-driven, learning-based, and distributed intrusion detection techniques, particularly those leveraging machine learning and edge intelligence. This Special Issue aims to present state-of-the-art advances in intrusion detection for IoT sensor networks. Submissions to this Special Issue may include, but are not limited to, the following topics:

- Intrusion Detection Techniques;
- Architectures and Systems;
- Trustworthiness and Robustness;
- Applications and Case Studies.

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### Guest Editors

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### Deadline for manuscript submissions

31 October 2026



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