

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

Dr. Morshed Chowdhury

School of Engineering and Information Technology (SEIT), Melbourne
Institute of Technology (MIT), Melbourne, Australia

Deadline for manuscript submissions

15 September 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/261596

Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



[mdpi.com/journal/
sensors](https://mdpi.com/journal/sensors)



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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Ei Compendex, Inspec, Astrophysics Data System, and other databases.

Journal Rank:

JCR - Q2 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)