

Special Issue

Cybersecurity and Trustworthiness in IoT Devices

Message from the Guest Editors

The rapid proliferation of Internet of Things (IoT) devices across critical domains—such as industrial automation, healthcare systems, smart grids, and autonomous transportation—has brought transformative benefits through automation, connectivity, and real-time data analytics. However, these advantages come with heightened cybersecurity and trustworthiness challenges, due to the inherent limitations in IoT device resources, the heterogeneity of platforms, and their exposure to persistent connectivity. This Special Issue aims to present state-of-the-art research that addresses the multi-dimensional security and trust challenges in IoT ecosystems. We welcome original contributions that explore novel frameworks for system protection, including lightweight encryption schemes, secure firmware update mechanisms, privacy-preserving protocols, anomaly detection models, and AI/ML-driven threat identification. To help set a foundation for the Special Issue, we also invite review articles and position papers that critically assess current trends, challenges, and future directions in IoT security and trustworthiness.

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Deadline for manuscript submissions

26 May 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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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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