Special Issue

New Challenges to Secure and Intelligent IoT Sensor Systems and Applications

Message from the Guest Editors

Internet of Things (IoT) sensors have transformed the way we live and work, enabling unprecedented connectivity between the physical and virtual worlds. In addition to challenges in new IoT sensor devices, wireless communication technologies and system architecture, IoT sensor systems and applications are facing new security and privacy challenges. Consequently, it is imperative to develop security- and privacy-preserving technologies for IoT sensor systems. This Special Issue focuses on emerging challenges in secure, privacy-preserving, intelligent and efficient IoT sensor systems and applications, as well as novel solutions empowered by the latest developments in blockchains, federated learning (FL), edge computing, deep learning (DL), neural networks (NNs) and privacy-enhancing technologies (PET). Potential topics include, but are not limited to:

- New threats to IoT sensor devices, systems and applications;
- Blockchain-integrated IoT sensor architecture and applications;
- Privacy-enhancing schemes for IoT applications;
- Machine learning for IoT security;
- Secure IoT system design;
- Efficient IoT system design;
- Intelligent IoT sensor applications.

Guest Editors

Dr. Xu Wang

Dr. Ying He

Prof. Dr. Yingjie Jay Guo

Deadline for manuscript submissions

closed (25 February 2024)

Sensors

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
Dipartimento di Ingegneria Elettrica e dell'Informazione (Department of Electrical and Information Engineering), Politecnico di Bari, Via Edoardo Orabona n. 4, 70125 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)