

Special Issue

Technological Advances for Sensing in IoT-Based Networks

Message from the Guest Editors

Artificial Intelligence is one of the fastest-growing technologies to evolve the Internet of Things (IoT), and sensors play a crucial role as an essential part. Sensors can link and merge different elements to create a smart worldwide network. This collection brings together cutting-edge research on IoT sensors, wireless sensor networks, and IoT applications across various domains. IoT integrates heterogeneous sensor communication protocols and intelligent data processing techniques, enabling applications in healthcare, automation, smart city monitoring, and other sectors. The growth of IoT-based networks brings lots of challenges in terms of scalability, security, privacy, energy efficiency, and reliability. To address these challenges, the Special Issue invites a combination of innovations in sensing hardware, data fusion, cloud computing, and beyond. This Special Issue invites novel research and review articles on recent advancements in IoT-based sensor networks. The goal is to highlight both theoretical and practical implementations that push the boundaries of IoT-enabled sensing technologies. For more details, please visit [here](#).

Guest Editors

Dr. Saurabh Singh

Department of AI and Big Data, Woosong University, Daejeon 34606, Republic of Korea

Dr. Prashant Kumar

Department of AI and Big Data, Woosong University, Daejeon 34606, Republic of Korea

Deadline for manuscript submissions

25 October 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/255518

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 8.2
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

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)