

Special Issue

Intelligent Sensing Systems: From Design to IoT Integration

Message from the Guest Editors

The evolution of sensing technology has transitioned from simple transducers to sophisticated intelligent sensing systems (ISSs). Historically, sensors served as passive data collectors. However, the confluence of microelectronics, low-power processing, and the proliferation of the Internet of Things (IoT) has catalyzed a paradigm shift. Modern sensors are increasingly endowed with embedded intelligence, enabling on-chip signal processing, data analytics, and decision-making capabilities, transforming them into the autonomous perceptual backbone of our connected world.

This Special Issue aims to provide a comprehensive forum for the latest advancements that bridge the gap between fundamental sensor design and systemic IoT deployment. The scope of this issue is inherently interdisciplinary, encompassing a full range of technologies, from novel sensor materials and low-power electronics to the complex challenges of data management, interoperability, and security within distributed IoT architectures.

Guest Editors

Dr. José Miguel Costa Dias Pereira

Polytechnic Institute of Setúbal, Setúbal School of Technology, 2910-761 Setúbal, Portugal

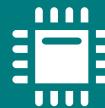
Dr. Vitor Manuel Rodrigues Viegas

1. CINAV-Escola Naval, Base Naval de Lisboa, 2810-001 Almada, Portugal

2. Instituto de Telecomunicações, 1049-001 Lisboa, Portugal

Deadline for manuscript submissions

20 September 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5

CiteScore 8.2

Indexed in PubMed



mdpi.com/si/262199

Sensors

Editorial Office

MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
sensors@mdpi.com

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

sensors





Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



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

