

## Special Issue

# Signal Processing and Machine Learning Techniques for Intelligent Sensing Applications

### Message from the Guest Editor

The last few decades have seen the emergence of a new era of intelligent sensors, enabling the creation of systems and devices that improve the convenience and quality of our lives and radically change the way people perceive and understand the world. Remarkable advances in machine learning and signal processing technologies now enable us to collect, analyse, and interpret information from a wide range of intelligent sensors in a variety of applications. This has a significant impact on a wide range of areas. This Special Issue calls for innovative efforts to explore new frontiers and challenges in the application of machine learning techniques and algorithms to many areas of intelligent sensing applications. Topics of interest include, but are not limited to, the following:

- Intelligent sensors and systems in machine vision and control;
- Machine learning methods for health monitoring and biomedical signal processing;
- Pattern recognition in medical diagnosis;
- AI-based transportation systems;
- Deep learning architectures;
- Data-driven models;
- Machine learning in various sensing applications.

---

### Guest Editor

Prof. Dr. Lidia Jackowska-Strumiłło

Institute of Applied Computer Science, Lodz University of Technology (TUL), 90-924 Lodz, Poland

---

### Deadline for manuscript submissions

30 November 2026



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/223357](https://mdpi.com/si/223357)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto: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)