

Special Issue

Recent Advances in Imaging Sensors: Integration with Machine Learning and Artificial Intelligence

Message from the Guest Editors

Recently, there has been growing interest in the field of imaging sensors, particularly regarding its integration of machine learning and artificial intelligence. An image sensor is a device that can convert optical images into electronic signals, possessing the advantages of high resolution, low noise, a large dynamic range and an extensive potential for integration. Recent advances in this field have made various applications available, including effective intelligent sensors for industrial machine vision, medical imaging, intelligent transportation and so on. This Special Issue therefore aims to garner original research and review articles on recent advances, technologies, solutions, applications, and new challenges in the field of image sensors. Potential topics include, but are not limited to, the following:

- Intelligent sensors;
- Industrial machine vision;
- Anomaly detection;
- Medical imaging;
- Object detection for intelligent transportation;
- Deep learning for image processing;
- Visual large models.

Guest Editors

Dr. Ning Chen
Dr. Hang Zhang
Prof. Dr. Jian Liu

Deadline for manuscript submissions

1 July 2026



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 9.4
Indexed in PubMed



mdpi.com/si/221380

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 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)