

## Special Issue

# Computer Vision and Sensor Technology

### Message from the Guest Editors

A variety of devices generate masses of image and video information constantly. This information cannot be processed without computer vision. In addition, the continuous development of artificial intelligence (AI) technology is also widely used in computer vision tasks. The collection and processing of image and video information includes many links. Firstly, the image sensor converts the optical image into electronic signal, and then the image signal processing (ISP) circuit processes the electronic signal at high speed to realize automatic exposure, automatic focus and automatic white balance. Then, the image signal can enter the processing unit and be used for various high-level computer vision tasks such as target detection and recognition. The aim of this special issue is to introduce the current developments in Image Sensors and Computer Vision applications exploiting artificial intelligence techniques. **Keywords**

- image sensors
- image signal processing (ISP)
- computer vision
- video processing and understanding
- image processing and understanding
- deep-learning- and machine-learning-embedded computer vision
- advanced driver assistance systems (ADAS)

---

### Guest Editors

Dr. Fengwei An

Dr. Hong-Ning Dai

Dr. Po Yang

Dr. Ping Li

---

### Deadline for manuscript submissions

closed (10 March 2023)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 9.4  
Indexed in PubMed



[mdpi.com/si/128739](https://mdpi.com/si/128739)

*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)