

## Special Issue

# Deep Learning-Based Neural Networks for Sensing and Imaging

### Message from the Guest Editors

Deep learning-based neural networks have brought about a significant transformation in the field of sensing and imaging. These networks have demonstrated exceptional performance in a wide range of applications, including image classification, object detection, and segmentation. With their ability to learn from large amounts of data, deep learning-based neural networks have become a powerful tool for analyzing and interpreting complex sensory information. This Special Issue is dedicated to showcasing the latest research and developments in this field, with a focus on exploring the potential of deep learning-based neural networks for sensing and imaging. The Special Issue aims to bring together researchers and experts from various disciplines to share their insights and findings, and to foster collaboration and innovation in this rapidly evolving field. By presenting cutting-edge research and developments, the Special Issue will contribute to advancing state-of-the-art deep learning-based neural networks for sensing and imaging, and will pave the way for new applications and technologies in the future. For more details, please visit [here](#).

### Guest Editors

Dr. Xin Ning

1. Institute of Semiconductors, Chinese Academy of Sciences, Beijing 100083, China
2. Center of Materials Science and Optoelectronics Engineering School of Integrated Circuits, University of Chinese Academy of Sciences, Beijing 100049, China

Prof. Dr. Wenfa Li

The Institute of Artificial Intelligence, University of Science and Technology Beijing, Beijing 100083, China

### Deadline for manuscript submissions

closed (25 January 2024)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/167917](https://mdpi.com/si/167917)

*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 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  
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)