Special Issue

Sensors and Applications in Deep Learning and Artificial Intelligence

Message from the Guest Editor

Prospective authors are welcome to submit original research and technical papers in these fields. Using sensor(s) technologies, the expected topics include, but are not limited to, the following:

- Applications and sensors for manufacturing, machinery, semiconductors, and related industries such as quality inspection, defect detection, predictive maintenance, and yield control, and related applications.
- Smart applications and sensors for architecture, construction, buildings, e-learning, and recommendation systems.
- Applications and sensors for autonomous vehicles, surveillance systems, traffic monitoring, suspicious tracking, and transportation.
- Object recognition, image classification, object detection, speech processing, human behavior analysis, and related sensing applications.
- Safety in nuclear power plants, drone-based delivery, medical systems, automation systems, security systems, smart farming, sensor performance optimization, and thermal imaging (infection detection).
- Sensor group-based communication for collective task operations, i.e., vehicle platooning, AI drones, manufacturing synchronization, etc.

Guest Editor

Prof. Dr. Shyan-Ming Yuan

Department of Computer Science, National Yang Ming Chiao Tung University, Hsinchu 300, Taiwan

Deadline for manuscript submissions

25 September 2025

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)