

Special Issue

Deep Learning-Based Heart and Brain Sensing and Imaging

Message from the Guest Editor

The diagnosis and prognosis of conditions related to the human heart and brain in hospitals predominantly rely on medical images and sensor data; these medical data are processed in order for the doctor to study the patient's cardiac and neurological condition and information. This Special Issue will include papers pertaining to biomedical engineering, computer vision, and Internet of things, as well as the theoretical and practical aspects of various sensors and information theory in medical image processing. Original research and review articles are welcome to be submitted for this Special Issue. Submitted papers should address the following topics, though this list is not exhaustive:

- ECG/EEG sensing and signal processing;
- Medical image processing related to the heart and brain;
- Bioinformatics for healthcare engineering;
- Supervised/unsupervised learning algorithms for ECG/EEG diagnosis applications;
- Explainable AI in ECG/EEG applications;
- Image retrieval, segmentation, grouping, and shaping;
- Internet of things (IoT);
- Applying machine learning-empowered sensing to industrial scenarios.

Guest Editor

Prof. Dr. Dakun Lai

School of Electronic Science and Engineering, University of Electronic Science and Technology of China, Chengdu 611731, China

Deadline for manuscript submissions

closed (10 February 2025)



Sensors

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed



mdpi.com/si/201506

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 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

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)