



Advanced Machine Learning Techniques for Biomedical Imaging Sensing and Healthcare Applications 2023

Guest Editors:

Dr. Mukesh Prasad

Dr. Rohitash Chandra

Dr. Poongodi Manoharan

Dr. Deepak Gupta

Prof. Dr. Jian Cao

Deadline for manuscript
submissions:

closed (20 September 2023)

Message from the Guest Editors

Researchers working in medical imaging and healthcare rely on the expertise of clinicians who play a significant role in understanding complex medical data for diagnosis of diseases. Advances in machine learning can be used to develop sophisticated and novel applications in the field of biomedical and healthcare domains. Special attention will be devoted to handling feature selection, class imbalance, model robustness, scalability, distributed and heterogeneous data sources, and data fusion in biomedical and healthcare applications. The main topics of this Special Issue include but are not limited to the following:

Information fusion and knowledge transfer in biomedical and healthcare applications;

- Imaging sensing tools, technologies and applications in biomedical research;
- Body motion and pose detection in biomedical imaging;
- Medical image reconstruction;
- Knowledge-assisted image processing;
- Domain adaptation in medical imaging;
- Content-based information retrieval;
- Medical image compression;
- Distributed training, learning, and inference for biomedical and healthcare data;
- Federated learning for biomedical and healthcare data.





sensors



an Open Access Journal by MDPI

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

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.

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 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)