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Advanced Machine Learning Techniques for Biomedical Imaging Sensing and Healthcare Applications

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Deadline for manuscript
submissions:

closed (30 January 2022)

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.



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Special Issue



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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.

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