Special Issue

Multi-Sensor Fusion of Biomedical Data: Application to Diagnosis and Treatment

Message from the Guest Editor

In the last decade, the use of computational and artificial intelligence has played a growing role in the exploitation of biomedical data from multiple sensors, improving medical diagnostics and enabling smarter healthcare solutions. The current Special Issue seeks to present and highlight emerging biomedical applications that use advanced sensor fusion strategies to reduce decision error probability and increase reliability. We encourage submissions that focus on any of the following aspects:

- Innovative data fusion strategies, such as Bayesian methods, graphical models, abductive reasoning, probabilistic data association and state estimation techniques, that promote predictive and preventive medical solutions;
- State-of-the-art frameworks employing signal or medical image analysis algorithms, as well as machine/deep learning techniques for extraction of biomarkers from multiple sensors that carry prognostic information on disease or therapy;
- Contributions that address the main challenges during data fusion attributed to the high dimensionality, heterogeneity, anatomical variability, noise, sparsity, and missing values in the data.

Guest Editor

Dr. Evangelia I. Zacharaki
Department of Electrical and Computer Engineering, University of Patras, Rio, Greece

Deadline for manuscript submissions

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Sensors
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sensors@mdpi.com

mdpi.com/journal/sensors

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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.

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

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