

Special Issue

The Sensing Technologies and Computational Methods for Biomedical Engineering: Next-Generation Perspectives

Message from the Guest Editors

Sensing technologies and computational methods are currently revolutionizing the field of biomedical engineering by enabling the development of innovative diagnostic and therapeutic solutions. As a result, research on new wearable sensors, imaging technologies and image-based diagnostic software, as well as the simulation and prediction of physiological mechanisms, among other things, has been conducted. In addition, following the fast growth of AI, specific attention has been paid to machine learning and deep learning methods to process clinical data (e.g., medical images and physiological biosignals). The aim of this Special Issue is to present the current developments in sensing technologies and computational methods with an impact on biomedical engineering, particularly through medically validated applications. New prototypes, specific and practical proof-of-concept examples as well as exhaustive validation studies and reviews are of particular interest.

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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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