

Special Issue

Feature Papers in Biomedical Sensors 2025

Message from the Guest Editors

Continuous health monitoring is the key technology to transform our curative medical systems into preventive systems. Avoiding adverse health events (stroke, heart failure, fall, ...) and detecting the development of chronic diseases at early stages improves the quality of life (QoL) of patients and saves money in the health systems. The latter is particularly important as our societies become older and older, paired with a growing lack of medical experts. The World Health Organization (WHO) defines health and wellbeing in six domains: environmental, behavioral, physiological, psychological, social, and spiritual. Including indirect measurements, such as cameras recording heart and respiratory rates, biomedical sensors are available on all these levels. In addition, artificial intelligence is available to analyze automatically the big data recorded by such sensors. This special issue invites original research and reviews on sensors that support implementing preventive treatments. We cover

- Sensor technology and evaluation
- Multimodal health recordings
- Data recording, synchronization, and fusion
- Data analytics
- Medical applications

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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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