



sensors



Special Issue Reprint

Sensors for Physiological Monitoring and Digital Health

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The Special Issue, “Sensors for Physiological Monitoring and Digital Health”, successfully bridged different scientific disciplines, providing a platform for highly innovative research. The issue showcased the significant potential of health monitoring through physiological signals for personalized healthcare. It highlighted the need for long-term monitoring in both clinical settings, to aid in diagnosis, treatment, and ongoing patient care, and in home settings, to offer continuous remote monitoring, potentially improving health outcomes and reducing healthcare costs. Reliable monitoring of vital parameters like EEG, EMG, and heart rate for elderly and chronic patients, a challenge effectively met by developing continuous, real-time, and nonintrusive wearable, highly integrated sensor networks.

The issue captured the rapid growth of the wearable medical device market and the evolution of biosensors and textile-based technologies, driven by advancements in microfabrication, flexible electronics, nanomaterials, and advances in wireless communication. It also explored how physiological monitoring using AI-powered digital health platforms is redefining healthcare, improving the quality of patient personalized care, and delivering value to all stakeholders. This collection of research now stands as a valuable resource, capturing the state-of-the-art in this exciting and emerging field.



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