Special Issue

Wearable Sensors and Artificial Intelligence for Real-Time Disease Monitoring

Message from the Guest Editor

The integration of wearable sensors with artificial intelligence represents a transformative shift in modern healthcare, allowing continuous, non-invasive monitoring and intelligent analysis of physiological data for real-time disease detection and management. =

Key technological innovations include multimodal sensor integration, which combines physiological monitoring with biochemical analysis, edge AI computing for autonomous real-time analysis, and predictive algorithms capable of forecasting health deterioration hours in advance. Applications range from cardiovascular disease monitoring and diabetes management to the detection of neurological disorders and the surveillance of chronic diseases.

This Special Issue invites original research articles and comprehensive reviews on advanced sensor technologies, AI algorithms for health data analysis, clinical validation studies, real-time monitoring systems, and emerging applications in personalized medicine. Topics include, but are not limited to, machine learning algorithms, deep learning architectures, biosensor development, edge computing, predictive analytics, and clinical implementation strategies.

Guest Editor

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You are cordially invited to submit research articles, short communications, comprehensive reviews, case reports or interesting images for consideration and publication in *Diagnostics* (ISSN 2075-4418). *Diagnostics* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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