# **Special Issue**

### Wearable Medical Sensors and AI-Driven Signal Processing for Next-Generation Healthcare

### Message from the Guest Editor

The integration of wearable medical sensors with artificial intelligence (AI)-driven signal processing technologies is revolutionizing next-generation healthcare. Recent advances in flexible electronics, biosensors, and edge computing have enabled realtime, continuous, and non-invasive monitoring of diverse physiological parameters. This Special Issue aims to showcase cutting-edge research and developments in wearable sensing technologies and intelligent signal processing algorithms that facilitate accurate health status assessment, early disease detection, and remote patient monitoring. We welcome original research articles, reviews, and case studies that address key challenges in sensor design, multimodal data acquisition, AI-based interpretation, and systemlevel integration in clinical or daily life scenarios. Topics of interest include, but are not limited to, novel wearable biosensors, AI algorithms for physiological signal analysis, edge/cloud health monitoring systems, realworld deployment of wearable devices, and their clinical applications in chronic disease management, mental health assessment, rehabilitation, and more.

### **Guest Editor**

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### Deadline for manuscript submissions

31 July 2026



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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

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