Special Issue

AI-Enabled Sensing Technology for Smart Healthcare and Precision Diagnosis

Message from the Guest Editor

This Special Issue explores the transformative role of artificial intelligence in reshaping modern healthcare through intelligent sensing technologies. As AI algorithms grow increasingly sophisticated and sensor technologies become more advanced, their integration is enabling faster, more accurate, and highly personalized diagnostics and treatment strategies. We welcome original research and practical applications demonstrating how AI-powered sensing systems are advancing clinical decision-making, real-time patient monitoring, and early disease detection. Emphasis is placed on interdisciplinary approaches that combine wearable devices, medical sensors, machine learning models, and edge/cloud computing to support data-driven healthcare innovation. Submissions addressing the integration of edge computing, cloud-based analytics, and next-generation wireless networks to improve diagnostic accuracy and healthcare delivery are particularly encouraged. We welcome contributions from academia and industry that drive innovation in smart, data-driven healthcare.

Guest Editor

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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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