

Special Issue

The Use of Artificial Intelligence and Machine Learning with Sensor Data for Human Healthcare Applications

Message from the Guest Editors

The field of healthcare is undergoing a transformative shift due to the integration of sensor-derived data, artificial intelligence (AI) and machine learning (ML). This Special Issue seeks to bring together groundbreaking research and advancements in leveraging these data-driven technologies to enhance health outcomes. By harnessing data from advanced sensor platforms and the predictive capabilities of AI/ML, innovative solutions are emerging for health monitoring, diagnostics, and personalized care. For instance, data collected by wearable devices such as smartwatches—which monitor vital signs, sleep patterns, and activity levels—can be processed with sophisticated AI/ML algorithms to detect anomalies, predict potential health concerns, and deliver personalized health recommendations. This integration of sensor data and AI/ML is crucial for real-time health management, especially for early detection and disease prevention. We invite research that focuses on AI/ML-driven analysis and modeling of sensor data in healthcare settings.

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