Special Issue

Wearable Sensors and Human Activity Recognition in Health Research

Message from the Guest Editor

The widespread adoption of wearable sensors offers an unprecedented opportunity to objectively measure human activity and behavior in health research. Human activity recognition (HAR) methods derived from accelerometers and other body-worn devices are now central to studies of physical function, chronic disease, mental health, aging, and more. However, this field faces major challenges in developing methods that are generalizable across populations, sensor types, and body locations, and reproducible in real-world conditions. In this Special Issue, we seek contributions that explore algorithm development, validation, and deployment of HAR models in diverse real-world contexts. We especially encourage studies that address scalability of algorithms to free-living environments, robust model training across heterogeneous datasets, and open-source pipelines that support reproducibility. Contributions that advance best practices in labeling, device calibration, feature extraction, and activity classification across populations are also welcome. For more information please click: mdpi.com/si/239974

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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