# **Special Issue**

# Human Activity Recognition Based on Sensors: Challenges and Perspectives

## Message from the Guest Editor

Human activity recognition (HAR) is an increasingly active and interdisciplinary field of research that focuses on identifying and analyzing human actions through various sensing technologies.

HAR leverages a variety of artificial intelligence techniques, including machine learning and deep learning, to process data collected from multiple sensing modalities. These include wearable sensors (e.g., accelerometers, gyroscopes, and physiological sensors), vision-based systems (e.g., cameras and depth sensors), and ambient sensors (e.g., motion detectors and pressure sensors). The fusion of these technologies enables a more accurate and contextaware understanding of human behavior in real-world environments.

As HAR continues to evolve, new research directions are emerging, such as self-supervised learning for activity recognition, multimodal sensor fusion, and real-time activity tracking using edge computing. This Special Issue aims to compile cutting-edge research in the field of human activity recognition, highlighting recent advancements, innovative methodologies, and emerging applications that are shaping the future of this technology.

#### Guest Editor

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### Deadline for manuscript submissions

30 November 2025



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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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