Special Issue

Innovations in Wireless Sensor-Based Human Activity Recognition

Message from the Guest Editors

Human activity recognition (HAR) technology aims to identify the activities and interactions of human subjects through their motions and behavioural patterns. Although wireless-sensor-based human activity recognition has been widely investigated with multiple modalities of sensors and a variety of modern sensing technologies, the development of accurate and robust human activity recognition systems still faces many challenges, including overcoming the low accuracy of sensors, low-information data, the lack of continual learning capability, multi-modality data fusion, hierarchy of activities, and privacy issues. Recent breakthroughs in materials, architectures, and fabrications in wireless sensors as well as in wireless sensing technologies have enabled researchers to develop more accurate and robust human activity recognition systems and corresponding emerging applications. These systems may be used for both individual activities and group activities. This Special Issue will focus on recent innovations in wireless sensors, sensing systems, and sensing technologies advancing human activity recognition technology. Both original research papers and reviews are welcome.

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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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