Special Issue

IMU Sensors for Human Activity Monitoring

Message from the Guest Editors

Human activity recognition (HAR) refers to the task of understanding the activities a subject performs with the help of wearable or visual sensors. HAR is currently employed in the majority of smart devices to recognize activities for fitness or health applications. Another important use of HAR is in assisted living environments, where patients can be remotely monitored by their caregivers or medical personnel. Inertial measurement unit sensors (IMU) are widely used for human activity recognition. IMU sensors usually refer to accelerometers, gyroscopes, and magnetometers. Although accelerometers are found to have the best performance in activity recognition, their combination with other inertial sensors can prove beneficial. This Special Issue aims to present original works on human activity recognition based on IMU sensors, with a special focus on multimodal HAR applications that include IMU sensors and their combinations with other types of sensors (e.g., physiological, visual).

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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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