Special Issue

Sensor-Based Human Activity Recognition in Real-World Scenarios

Message from the Guest Editors

As we have witnessed over the last few decades, more and more smart homes, wearable-based systems, and real-world testbeds are emerging, indicating promising value in applications such as healthcare, wellbeing, and smart environments. One of the core enabling technologies underlying these applications is sensor-based human activity recognition, which consists of inferring high-level activities from low-level sensor data to support context-aware applications. Studying human behaviours using unobtrusive sensors (including environmental and/or wearable sensors) is a popular research area, and a large number of data- and knowledge-driven techniques have been proposed. However, developing robust human activity recognition systems for long-term and real-world deployments still faces many research challenges, including a lack of high-quality labelled data, continual learning, the emergence of new activities, and privacy issues. This Special Issue serves as a forum to enable researchers and practitioners to present their latest research findings and engineering experiences in empirical studies, including novel techniques for activity recognition in real-world scenarios.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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