Special Issue

Human Activity Recognition (HAR) in Healthcare, 2nd Edition

Message from the Guest Editors

Technological advances, including those in the medical field, have improved patients' quality of life. These results have led to an increased elderly population with a greater demand for healthcare, which is difficult to meet due to caregivers' expensive and scarce availability. Advances in artificial intelligence, wireless connection systems, and nanotechnologies allow intelligent human health monitoring systems to be created, avoiding hospitalization with apparent cost containment. Recognizing human activities, specially those based on the use of data collected through sensors or on viewing images captured by cameras is fundamental in the health monitoring system. In addition, they can guarantee activity recognition functions, the monitoring of vital functions, traceability, the detection of falls and safety alarms, and cognitive assistance. The rapid development of the Internet of Things supports research on a wide range of automated and interconnected solutions to improve the quality of life of older people and their independence. With IoT, it is possible to create innovative solutions in ambient intelligence and ambient assisted living.

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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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