Special Issue

Wearable Sensors and Artificial Intelligence for Measuring Human Vital Signs

Message from the Guest Editors

In the medical field, it is possible to monitor patients' body temperature, heart rate, brain activity, and other critical data. It is important to have very simple sensors that could be worn on the body to perform standard medical monitoring. The extraction of relevant features is the most challenging part of the mobile and wearable-sensor-based human activity recognition pipeline. The complexity and variety of body activities makes it difficult to quickly, accurately, and automatically recognize body activities. With the emergence of deep learning and increased computational powers, these methods are being adopted for feature extraction and the classification of simple and complex human activity recognition in mobile and wearable sensors. Human activity recognition technology that analyzes data acquired from various types of sensing devices, including vision sensors and embedded sensors, has motivated the development of various context-aware applications in emerging domains, e.g., the Internet of Things (IoT) and healthcare.

- wearable sensors
- electronic health
- telemedicine
- artificial intelligence
- machine learning
- deep neural networks

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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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