Special Issue

Human Motion Monitoring and Modeling

Message from the Guest Editors

Long-term continuous monitoring and modeling of human motion could enable various new applications of Internet of Things as well as novel diagnostic tools. Therefore, non-intrusive, fine-grained, and accurate human motion monitoring and modeling have become essential for various smart applications. Current state-of-the-art solutions include various on-body and off-body sensors as well as multimodal heterogeneous sensing systems. The challenges include and are not limited to 1) limited labeled data, 2) limited devices/sensors, 3) limited computational resources, 4) personalization and user variance, 5) behavior profiling and anomaly detection, and 6) system quantification and optimization. Potential submissions could cover the development of new sensors, repurposing existing sensors, combining heterogeneous sensors to capture human motion and methods, systems that acquire finer-grained human motion and/or utilize captured human motion to achieve behavior modeling. The topics include but are not limited to the following:

- human motion monitoring
- fine-grained motion modeling
- wearables
- on-body/off-body sensing
- multimodal
- human variance

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

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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