Special Issue

Wearable Sensors for Human Locomotion Monitoring

Message from the Guest Editor

Mobile brain and body imaging methods that rely on wearable sensors have led human locomotion research into increasingly realistic settings. Hardware innovations have generated lightweight, wireless, and portable sensors, and the development of signal cleaning methods for eliminating noise contamination have made it possible to measure robust biomechanical and physiological signals during dynamic movements. Advances in methods for recording neuromechanical signals from mobile humans will improve our understanding of human behavior during real-world gait, which is crucial for monitoring human health, improving human performance, treating locomotor deficits, and developing assistive locomotor devices. Contributions to this Special Issue are encouraged from research topics that include sensor and algorithm development and validation, studies that introduce and apply state-of-the-art sensor technologies for measuring human biomechanical and physiological signals during locomotion, as well as human locomotion studies that apply portable recording methods for measuring human brain, muscle, and body dynamics.

Guest Editor

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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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