Special Issue

Wearable Sensors for Human Movement Analysis Related to Biomechanics and Exercise Physiology

Message from the Guest Editor

In all fields of wearable technology, the accuracy and validity of the sensors are key quality factors, but there are huge challenges in miniaturization, and problems with energy supply and exposure to physical influences such as vibrations, humidity, temperature changes or impacts. Research developments need to address those issues and find solutions. The use of machine learning and artificial intelligence is one approach. The fusion of wearable technology for physiological–metabolic sensors and devices for biomechanical–movement analysis will allow for comprehensive analyses of human movement, performance potential and also injury risk as well as health status. A comprehensive analysis of human athletic activities cannot be performed with biomechanics or physiology in isolation but must integrate both fields of research. This Special Issue on "Wearable Sensors for Human Movement Analysis Related to Biomechanics and Exercise Physiology" will address both aspects to provide insights into current developments, opportunities and challenges.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2023)

Sensors

an Open Access Journal by MDPI

Impact Factor 3.5
CiteScore 8.2
Indexed in PubMed

mdpi.com/si/79528

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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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