



sensors



an Open Access Journal by MDPI

Sensors and Wearable Technologies in Sport Biomechanics

Guest Editors:

Dr. Yih-Kuen Jan

Dr. Chi-Wen Lung

Dr. Ben-Yi Liao

Dr. Manuel E. Hernandez

Deadline for manuscript
submissions:

31 August 2024

Message from the Guest Editors

Dear Colleagues,

Sport biomechanics is a subfield of biomechanics that studies mechanics to improve performance and reduce injury during exercise and physical activities in abled-bodied people and people with disabilities. Traditionally, sport biomechanics research has been conducted in laboratory settings that limits the generalization of research findings to real-life field competitions.

Although these sensors and wearable technologies have demonstrated the promise to improve sport performance and reduce injury in sport biomechanics, these novel sensors have not been widely applied to study various sport activities (e.g., speed skating, football and marathon). Many novel wearable sensors for assessing cardiovascular and metabolic process have not been used to benefit athletes. Furthermore, data collected from these wearable sensors have not been fully analyzed. This aim of this Special Issue is to highlight these novel sensors and wearable technologies and their applications in sport biomechanics as well as machine learning-based analyses of real-time, continuous wearable sensor data.

Dr. Yih-Kuen Jan

Dr. Chi-Wen Lung

Dr. Ben-Yi Liao

Dr. Manuel E. Hernandez

Guest Editors



mdpi.com/si/112403

Special Issue



sensors



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

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.

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

Contact Us

Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)