



Inertial Measurement Units in Sport

Guest Editor:

Dr. Robert Crowther

1. School of Behavioural and Health Sciences, Australian Catholic University, Brisbane 4014, Australia

2. UniSA Allied Health & Human Performance, University of South Australia, Adelaide 5001, Australia

Deadline for manuscript submissions:
closed (31 August 2023)

Message from the Guest Editor

Dear Colleagues,

Recently researchers and sport scientists have turned towards the use of inertial measurement units (IMUs) to break out of the laboratory. IMUs have become small, portable, and now low cost. Even sport equipment companies are integrating IMUs into consumer products to provide consumers with more information about their movements.

This Special Issue is intended to report recent advances in IMU use in sporting activities. Articles will address topics including original research using IMUs in-field, the reliability and validity of IMUs, and methods to analyze data captured from IMUs that help provide practical transition to consumers, researchers, and sport scientists. Additionally, the challenges and gaps that remain in the implementation and outcome of using IMUs in research and sport science will be discussed.

- Inertial measurement units
- Smart sensors
- Sensor fusion
- Wearable technology
- Angular kinematics
- Sport
- Outside laboratory
- Load monitoring





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](#)