



Human and Animal Motion Tracking Using Inertial Sensors II

Guest Editor:

Prof. Dr. Frederic Marin

Centre of Excellence for Human
and Animal Movement
Biomechanics, Université de
Technologie de Compiègne
(UTC), UMR BMBI CNRS 7338,
Alliance Sorbonne Université,
Paris, France

Deadline for manuscript
submissions:

closed (22 October 2022)

Message from the Guest Editor

Due to the versatility of inertial sensors, measurement sessions can now easily be conducted outside the laboratory, for example, at the workplace or in field studies. They also allow for sessions of either a very short duration, such as shock and crash situations, but also for sessions lasting several days, as in the case of monitoring of physical activity. Inertial sensors can be used as single sensors or inertial sensors networks allowing to record kinematics or dynamics of either a single anatomical segment, the upper and lower limbs, or even the full body.

This Special Issue would like to display innovative work exploring new hardware and software solutions deriving from inertial sensors related to human or animal motion.

The particular topics of interest include but are not limited to:

- Sensor calibrations and registrations on anatomical body;
- Methods to determine anatomical orientations and translations;
- Management of errors, bias, drift of the inertial sensors;
- Clinical applications;
- Ergonomics applications;
- Sports application;
- Quantification of physical activity.





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](#)