



an Open Access Journal by MDPI

Applied Biomechanics and Motion Analysis

Guest Editors:

Prof. Dr. Rita M. Kiss

Department of Mechatronics,
Optics and Mechanical
Engineering Informatics, Faculty
of Mechanical Engineering,
Budapest University of
Technology and Economics,
Műegyetem rakpart 3, 1111
Budapest, Hungary

Prof. Dr. Alon Wolf

Biorobotics and Biomechanics
Lab (BRML), Faculty of
Mechanical Engineering,
Technion-Israel Institute of
Technology, Haifa 32000, Israel

Deadline for manuscript
submissions:

closed (20 February 2024)

Message from the Guest Editors

Dear Colleagues,

It is our pleasure to present this Special Issue on “Applied Biomechanics and Motion Analysis”. The developments in the field of recording human and animal movement have been significant in recent decades. Kinematic, dynamic, and EMG measurements are prevalent not only during everyday movement such as walking, but also during sports movements (running, fencing, throwing). We look forward to receiving systematic reviews, original publications, and case studies in the following areas, but not exclusively:

- Development, validation, and verification of new measuring instruments and approaches;
- Kinematic, dynamic, EMG, and other physiological measurements related to motion;
- New signal processing methods in the field of kinematic and physiological data processing;
- Action recognition and motion evaluation based on artificial intelligence and machine learning methods;
- Novel approaches in gait analysis, analysis of activities of daily living, and sports movement;
- Studies on human balancing, balance tests, and dynamic posturography;
- Animal motion analysis, e.g., canine, bovine, equine.



mdpi.com/si/90645

Special Issue



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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), Inspec, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)