

# Special Issue

## Applied Biomechanics and Motion Analysis

### Message from the Guest Editors

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.

### 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)



## Applied Sciences

an Open Access Journal  
by MDPI

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/90645](https://mdpi.com/si/90645)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[appls@mdpi.com](mailto:appls@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[appls](https://appls)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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.

---

### Editor-in-Chief

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

---

### 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), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering )