

Special Issue

Innovative Approaches in Biomechanical Analysis of Human Movement

Message from the Guest Editors

This Special Issue welcomes original research, systematic reviews, and meta-analyses on innovative methodologies, technologies, and applications in biomechanics and movement analysis for sports performance optimization. The broad scope encompasses experimental, computational, and applied contributions that enhance the understanding of human movement. We invite submissions on topics including but not restricted to motion capture, wearable sensor technology, musculoskeletal modeling, force plates and EMG, AI-driven movement analysis, performance monitoring, injury prevention strategies, and sports prosthetics. Submissions must present a strong rationale, clearly demonstrating their importance and contribution to the field, as well as meaningful findings with practical implications. Furthermore, all submissions—whether contributing to research or practice—need to explicitly declare their concrete applications and impact on the target audiences (e.g., researchers, clinicians, and coaches). We particularly encourage interdisciplinary research that combines biomechanics with engineering, neuroscience, rehabilitation, or sports training.

Guest Editors

Dr. Herbert Wagner

Department of Sport and Exercise Science, University of Salzburg,
5400 Salzburg, Austria

Dr. Philip X. Fuchs

Department of Physical Education and Sport Sciences, National Taiwan
Normal University, Taipei 10610, Taiwan

Deadline for manuscript submissions

20 October 2025



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/237899

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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

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