

Special Issue

Application of Biomechanics in Sports Science

Message from the Guest Editors

Biomechanics, the study of the mechanical laws relating to the movement or structure of living organisms, plays a pivotal role in sports science by optimizing athletic performance and reducing injury risks. By analyzing the mechanical aspects of movement, biomechanics helps in understanding the forces exerted by muscles and gravity on the skeletal structure. This scientific approach is employed to refine techniques in various sports, leading to enhanced efficiency and effectiveness. This Special Issue aims to first understand the biomechanical applications to improve sports performance, while the second objective is related to receiving articles on applications of biomechanics for preventing and reducing the risk of sports injuries. Articles received for this Special Issue must be in the following formats: brief report, original study, clinical trials, experimental study, scope review, systematic review, and meta-analysis.

Guest Editors

Dr. Fábio Juner Lanferdini
Dr. Leonardo Alexandre Peyré-Tartaruga
Dr. Cosme Franklim Buzzachera

Deadline for manuscript submissions

closed (20 March 2026)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/210735

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

mdpi.com/journal/

[applsci](https://doi.org/10.3390/applsci)





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, Embase, CAPIus / SciFinder, and other databases.

Journal Rank:

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