Special Issue

Technology as a an Auxiliary Means in Sports for Disabled People

Message from the Guest Editors

This Special Issue will investigate the intersection of biomechanics, medical engineering, and technology to facilitate participation in martial arts for individuals with disabilities. Potential themes include the development and evaluation of adaptive martial arts equipment (e.g., prosthetics, modified supports); biomechanical analysis of movement patterns in disabled martial artists and the design of tailored training approaches; the use of sensors, motion capture, and data analysis to optimize techniques and performance for disabled athletes; and applications of assistive technologies (e.g., exoskeletons) to enhance movement and safety within martial arts practice. This issue aims to showcase original research, case studies, and reviews that highlight the potential of technology to promote inclusivity, empowerment, and athletic achievement in martial arts for those with disabilities. Keywords:

- assistive technology
- martial arts
- disability, physical
- sports for persons with disabilities
- rehabilitation technology
- physical therapy modalities
- adaptation, physiological
- prostheses and implants
- health information technology
- combat sports

Guest Editors

Dr. Dariusz Mosler

Institute of Physical Culture Sciences, Jan Dlugosz University in Częstochowa, 42-200 Częstochowa, Poland

Prof. Dr. Wojciech J. Cynarski

Institute of Physical Culture Studies, University of Rzeszow, 35-959 Rzeszów, Poland

Deadline for manuscript submissions

closed (30 June 2025)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/203126

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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)