

## Special Issue

# Biomechanics and Performance Assessment in Paralympic Sports and Adapted Physical Activity

### Message from the Guest Editors

Since 1940, when Sir Ludwig Guttmann promoted physical activity in the social reintegration of paraplegic war-wounded people, the Paralympic movement has significantly developed. Adapted physical activity is increasingly considered the best gateway to getting well, and today, thanks to the methodologies used for functional classification, it is possible to ensure healthy and fair competition in Paralympic disciplines.

This growth makes it necessary to develop research activities in the field of biomechanics and support movement with new and more specific classification and training methodologies useful for improving the performance of individual athletes with disabilities and, overall, their well-being.

This Special Issue aims to cover recent advances in studies on applying new measurement systems or scientific approaches dedicated to assessing human movement, exercise, and performance in Paralympic sports and adapted physical activities.

---

### Guest Editors

Dr. Vincenzo Bonaiuto

Department of Industrial Engineering, University "Tor Vergata" of Rome,  
Via del Politecnico 1, 00133 Roma, Italy

Dr. Delphine Chadeaux

Arts et Métiers Institute of Technology, EPF Engineering School,  
Université Sorbonne Paris Nord, IBHGC-Institut de Biomécanique  
Humaine Georges Charpak, F-75013 Paris, France

---

### Deadline for manuscript submissions

25 December 2025



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/237634](https://mdpi.com/si/237634)

*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 )