

Special Issue

Clinical Gait Analysis in Children: Progress and Relevance: Second Edition

Message from the Guest Editor

Often taken for granted, skills such as walking, running or other locomotor modes are deemed vital aspects of mobility in children. Quantitative motion analysis facilitates the identification of atypical characteristics, helps to observe and evaluate them and assists in identifying the source of impairments. This Special Issue focuses on the application of clinical human movement science with an emphasis on the biomechanics of locomotion. The main focus will be on the following three key topics:

Better detection of pathologies and understanding their genesis.

Optimization of diagnostics and clinical decision making.

Enhancement of interventions, such as exercises, therapy, orthoses, walking aids, drugs or invasive treatments, to alleviate impairments and lower the burden for children.

The spectrum of cohorts may be multifaceted. Methodological work that demonstrates and optimizes the applicability, accuracy and validity of motion capture technology in the medical context is also welcome.

Guest Editor

Dr. Matthias Hösl

1. Schön Klinik Vogtareuth, Gait and Motion Analysis Laboratory, Vogtareuth, Germany
2. Institute of Rehabilitation, Transition and Palliation of Neurologically Ill Children, Paracelsus Medical University, Salzburg, Austria

Deadline for manuscript submissions

closed (15 November 2025)



Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



mdpi.com/si/241446

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

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





Children

an Open Access Journal
by MDPI

Impact Factor 2.1
CiteScore 3.8
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or comprehensive review for consideration and publication in *Children* (ISSN 2227-9067). *Children* is an open access journal—research articles, reviews, and other content are published online immediately after acceptance. The scientific community and the general public have unlimited free access to the content as soon as it is published. The journal focuses on sharing clinical, epidemiological, and translational science relevant to children's health. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Paul R. Carney

Departments of Child Health and Neurology, University of Missouri, 400 Keene Street, Columbia, MO 65211, USA

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), PubMed, PMC, Embase, and other databases.

Journal Rank:

JCR - Q2 (Pediatrics) / CiteScore - Q2 (Pediatrics, Perinatology and Child Health)