

Special Issue

Motor Competence, Cognition, Movement Behaviors, and Physical Fitness in Children and Adolescents: New Theoretical and Statistical Approaches

Message from the Guest Editors

The study of motor competence, cognition, movement behaviors, and physical fitness in children has gained prominence due to its impact on child development and lifelong health. Traditionally, these relationships have been demonstrated through conventional statistical approaches, which often fail to capture the complexity, non-linearity, and interdependence among these variables. This Special Issue aims to present new theoretical and statistical approaches, including network science, which enables the simultaneous analysis of multiple interactions, revealing more robust and interconnected patterns in child development. This Special Issue seeks to understand how different motor competence profiles influence cognition and physical fitness and investigate the role of movement behaviors in motor and cognitive development during early and middle childhood and adolescence. The application of these innovative methodologies provides advanced insights into the factors that modulate child development, allowing for the creation of more effective intervention strategies in educational and sports settings.

Guest Editors

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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

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