

Special Issue

Biomechanical Assessment in Pediatric, Youth and Growth-Related Populations

Message from the Guest Editor

Growth and maturation drive continuous refinement of motor patterns, from a toddler's first steps to the highly coordinated skills of a young athlete. Lightweight wearable sensors, portable force plates, and high-speed motion capture now allow precise, ecologically valid quantification of muscle strength, proprioception, agility, and balance, offering objective insight into motor skill acquisition throughout childhood and adolescence. These technologies are reshaping pediatric rehabilitation, where such measures guide individualized therapy for children with neuromuscular or orthopedic conditions. In parallel, youth sports programs increasingly apply biomechanical profiling for talent identification, training load management, and injury prevention. We are pleased to invite you to contribute to this Special Issue, which will consolidate the latest evidence on biomechanical assessment in pediatric, youth, and growth-related populations.

Guest Editor

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