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## Locomotion Biomechanics and Motor Control

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### Message from the Collection Editor

Motor control and biomechanics have gradually developed important research fields in human/Animal movement. Locomotion biomechanics is a fascinating interdisciplinary research field that addresses key aspects of how the biological motor system is designed and controlled. Its research field comprises the function of the musculoskeletal system (body mechanics), neuromuscular system (Neurocontrol and Neuromodulation) as well as the organization of sensorimotor functions (motor control and learning). Motor control underlies motion, balance, stability, coordination, and our interaction with others. The integration between biomechanics and motor control deserves more attention and discussion.

This special issue focuses on collecting papers that investigate motor control based on complicated locomotion biomechanics methodologies and use biomechanical theories. It also aims to explore the key techniques, theories, and applications of locomotion biomechanics and motion control. This Special Issue welcomes original research and review papers covering the following topics(including but not limited to):

- Locomotion
- Movement
- Gait analysis
- Posture and balance
- Kinematics
- Motor control



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*Biomechanics* (ISSN 2673-7078) is an international, peer-reviewed, and open access journal devoted to the fast publication of the latest achievements of scientific research in the area of biomechanics. Both experimental and theoretical papers are published. We hope that the submission guidelines and submission template will assist you in your submission of your research to this journal, and that you will enjoy reading the articles in *Biomechanics*.

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**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 24.8 days after submission; acceptance to publication is undertaken in 7.9 days (median values for papers published in this journal in the second half of 2025).

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