

Special Issue

Gait and Balance Analysis in Parkinson's Disease

Message from the Guest Editor

Gait and balance impairments are common features of Parkinson's Disease (PD), which contribute significantly to falls, reduced mobility, and reduced quality of life.

This Special Issue aims to consolidate interdisciplinary research exploring the mechanisms, assessment tools, and therapeutic interventions targeting gait and balance dysfunction in PD. We welcome contributions from neurology, biomechanics, rehabilitation sciences, and wearable technology development, with a focus on both early detection and longitudinal monitoring.

Cutting-edge research featured includes machine learning models trained on inertial sensor data to predict fall risk, neuroimaging studies linking basal ganglia degeneration to gait variability, and randomized trials evaluating cueing strategies and deep brain stimulation effects on postural control. The issue also highlights novel frameworks for remote gait assessment and the integration of digital biomarkers into clinical practice.

We are soliciting original research and review articles.

Guest Editor

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Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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