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Advanced Wearable Sensors and Other Sensing Technologies for Diagnosis and Treatment of Parkinson's Disease and Movement Disorders

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Message from the Guest Editors

Parkinson's disease is a degenerative neurological disorder that affects millions of people worldwide, posing significant challenges to healthcare systems and the quality of life for patients and caregivers. Given its high prevalence and the heterogeneity of its clinical motor and non-motor manifestations, Parkinson's disease is a model for the study of other related movement disorders such as atypical parkinsonism, Huntington's disease and other forms of chorea, degenerative and inheritable ataxia, and dystonia. The integration of advanced wearable sensors and biosensors into the management of Parkinson's disease and movement disorders marks a paradigm shift from traditional methods to more personalized, accurate, and early detection strategies, which also aim to improve the outcome of clinical trials.

This Special Issue will address the latest advancements in sensing technologies that aid in the diagnosis, monitoring, and treatment of Parkinson's disease and related movement disorders. We welcome original research papers or pilot studies on innovative methodologies focused on sensing technologies.



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Special Issue



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Message from the Editor-in-Chief

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