Special Issue

Advanced Sensors for Neurorehabilitation: Empowering Precision and Personalized Therapy

Message from the Guest Editor

Neurorehabilitation aims to restore and enhance motor and cognitive functions in individuals with neurological disorders. Here, we wish to delve into the advances, challenges, and future prospects of advanced sensor technologies in neurorehabilitation. Recent achievements in sensor technology have revolutionized the field, offering objective assessments and personalized interventions. This Special Issue provides an overview of advanced sensors for neurorehabilitation and their potential to transform traditional approaches. Advanced sensors, such as wearables, robots, and neuroimaging technologies, enable real-time monitoring of physiological and biomechanical parameters. They quantify motor performance, assess neuromuscular activation, and evaluate brain activity, providing insights into intervention effectiveness. Keywords:

- neurorehabilitation
- advanced sensors
- neural interfaces
- rehabilitation technology
- wearable sensors
- human–machine interface

Guest Editor

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Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. Sensors organizes Special Issues devoted to specific sensing areas and applications each year.

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