Special Issue

Biomedical Signals Analysis for Neurorehabilitation and Clinical Decision Support in Neurological Disorders

Message from the Guest Editor

In recent years, advances in signal processing, machine learning, and big data analytics techniques have provided new opportunities to develop solutions for the automated analysis of biological signals. Potential applications are relevant for neurological disorders with disabilities. This Special Issue focuses on neurological disorders with motor or cognitive impairments and intends to collect contributions of the most recent, innovative and clinically significant research in the context of computer analysis of biosig-nals. Potential areas of interest include but are not limited to:

- Automatic processing, feature extraction, and classification of bioelectrical signals (ECG, EMG, EEG, etc.) for diagnostic, monitoring, or rehabilitation purposes;
- Sensors or video-based movement analysis;
- Assessment of motor impairments based on EEG/EMG/movement data;
- Remote neurorehabilitation based on automated assessments of disabilities;
- Quantitative evaluations on rehabilitation effectiveness;
- Pattern recognition, machine learning, and artificial intelligence techniques for telemedicine;
- Multi-parametric real-time signal processing;
- Application of BCI systems in neurorehabilitation.

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.

Editor-in-Chief

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