

## Special Issue

# Robot- and Brain Computer Interface Therapies for Neurorehabilitation: Current State of the Art and Applications

### Message from the Guest Editor

Brain-computer Interface (BCI) technology has been introduced to improve the quality of life of people with disabilities or difficulties in their daily lives.

BCI and rehabilitation projects have various limitations. In this Special Issue, we intend to focus on mathematical solutions based on signal denoising (filtering), feature extraction, and machine learning algorithms. This collection of articles aims to highlight mathematical innovations as well as new ideas for designing tasks to induce the generation of distinctive neuronal patterns within the brain. Our ultimate goal is to discover novel methods for use in BCI applications. We welcome manuscripts on the following subtopics:

- Decoding brain neuron activities by developing mathematical methods for identifying patterns within the EEG signals automatically
- Identifying EEG patterns relative to human actions and decisions automatically
- Analyzing the patterns generated in a designed task to find out which method is more beneficial, for example, wavelet, chaotic methods, common spatial patterns, or reinforcing methods.

The development of classifiers to automate the identification procedures

### Guest Editor

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### Deadline for manuscript submissions

20 June 2026



## Brain Sciences

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## About the Journal

### 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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