

## Special Issue

# Understanding Brain Disorders Through EEG and AI

### Message from the Guest Editors

Brain disorders such as **ADHD, Alzheimer's, Parkinson's disease, and other neurological conditions** significantly impact cognitive and motor functions, leading to memory loss, impaired decision making, and movement disorders. If left undiagnosed or untreated, these conditions can progress, causing severe disability, reduced quality of life, and increased healthcare burdens. This **Special Issue, "Understanding Brain Disorders Through EEG and AI"**, focuses on leveraging **machine learning and deep learning** to analyze **electroencephalography (EEG) signals** for the early diagnosis and prognosis of brain disorders. EEG, with its high temporal resolution, serves as a **non-invasive biomarker**, revealing altered brain activity patterns linked to neurological dysfunctions. AI-driven models enhance EEG signal interpretation, enabling automated classification, real-time monitoring, and predictive analytics for personalized interventions. We invite **original research and review articles** showcasing **AI-EEG integration for early detection, neurophysiological insights, and clinical applications**, aiming to improve diagnosis, treatment, and patient outcomes.

### Guest Editors

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### Deadline for manuscript submissions

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### Editor-in-Chief

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