

## Special Issue

# Applications of Deep Learning and Generative AI in Neuro-Medicine and Brain-Centric Interfaces

### Message from the Guest Editor

Advancements in AI—especially deep learning, transformers, and generative AI—are rapidly reshaping neuro-medicine and brain-computer interfaces (BCI). This Special Issue invites high-quality studies at the intersection of AI and neuro-medicine, focusing on cognitive health, neurological disorders, and BCI. We welcome research applying AI to EEG, fNIRS, MRI, eye-tracking, EMG, and wearable devices. Topics include epilepsy detection, stroke prediction, ASD analysis, cognitive workload modeling, neurodevelopmental and neurodegenerative assessments, and real-time BCI systems. We seek contributions on multi-modal neural data, low-channel EEG prediction, transfer learning, and explainable AI in clinical settings. Work combining methodological advances with real-world applications, such as hybrid models, LLMs for neuro-diagnostics, and privacy-preserving systems, is highly encouraged. We welcome original articles, reviews, and short communications.

### Guest Editor

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### Deadline for manuscript submissions

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