Special Issue

Artificial Intelligence in Neurological Disorders

Message from the Guest Editors

This Special Issue focuses on the integration of machine learning (ML), deep learning (DL), and other AI methodologies into clinical neurology. Key topics include AI-driven diagnostic tools for the early detection of disorders such as Alzheimer's disease, Parkinson's disease, and multiple sclerosis, along with predictive models of disease progression. Advances in neuroimaging analysis, personalized treatment strategies, and rehabilitation technologies are also highlighted.

This Special Issue emphasizes the potential of AI to enhance diagnostic accuracy and reduce clinical workload by interpreting complex neurological data. Ethical considerations, including bias, data privacy, and the need for explainable AI, are also discussed. Case studies demonstrate real-world applications of AI for improving patient outcomes, while challenges such as data standardization and regulatory hurdles are addressed. Overall, this Special Issue underscores AI's promise in revolutionizing neurological healthcare, urging multidisciplinary collaboration for its successful implementation.

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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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