

Special Issue

Application of Artificial Intelligence in Neurological Diseases

Message from the Guest Editors

The wide application of artificial intelligence (AI) and machine learning (ML) on neuroscience data represents an unprecedented way for understanding neurological diseases. The AI and ML could, indeed, deal with multi-modal, multi-dimensional, and multi-source data, which can help to extract new knowledge about the pathological mechanisms that affect the human brain and, more generally, the nervous system. This Special Issue of *the Journal of Personalized Medicine* is devoted to collect original scientific articles that explore neurological diseases through the use of AI and ML approaches. In particular, we accept works that apply supervised and unsupervised learning, reinforcement learning, deep learning, and the more recent explainable and interpretable ML methodologies. Moreover, we seek to collect studies using and exploring different source of data, such as neuroimaging (structural MRI, functional MRI and Nirs), neurophysiology (TMS, EMG, EEG, MEG), biorobotics, and biomechanics (inertial, wearable, IoT sensors) applied to neurodegenerative diseases. Contributions such as systematic reviews or meta-analyses on the above-mentioned topics are also welcome.

Guest Editors

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Deadline for manuscript submissions

closed (25 August 2023)



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About the Journal

Message from the Editor-in-Chief

Journal of Personalized Medicine (JPM), ISSN 2075-4426) is an international, open access journal aimed at bringing all aspects of personalized medicine to one platform. *JPM* publishes cutting edge, innovative preclinical and translational scientific research and technologies related to personalized medicine (e.g., precision medicine, pharmacogenomics/proteomics, systems biology, 'omics association analysis). *JPM* is covered in Scopus, the Science Citation Index Expanded (SCIE), PubMed, PMC, Embase, and other databases.

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.5 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the first half of 2025).