Special Issue

Artificial Intelligence (AI) in Sleep Medicine

Message from the Guest Editor

The intersection of artificial intelligence (AI) and sleep medicine represents one of the most promising frontiers in neuroscience and clinical practice. Recent breakthroughs have demonstrated that sleep patterns and characteristics serve as powerful biomarkers for various physical and mental health conditions, enabling early detection and intervention in diseases ranging from cardiovascular disorders to neurodegenerative conditions. This Special Issue aims to showcase cutting-edge research leveraging AI technologies to advance our understanding and treatment of sleep disorders, improve diagnostic accuracy, and develop personalized interventions.

We welcome contributions that explore innovative applications of AI in sleep medicine, including but not limited to automated sleep staging, sleep disorder diagnosis, prediction of treatment outcomes, real-world monitoring solutions, and sleep-based health risk assessment, welcome work spanning the full spectrum from basic sleep science to clinical applications, with emphasis on validated approaches, and the use of sleep-related data for early disease detection and health outcome prediction.

Guest Editor

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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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