



## Artificial Intelligence in Sleep Medicine

Guest Editors:

**Dr. Ambra Stefani**

Sleep Disorders Clinic,  
Department of Neurology,  
Medical University of Innsbruck,  
Anichstrasse 35, 6020 Innsbruck,  
Austria

**Dr. Wolfgang Ganglberger**

Clinical Data Animation Center,  
Department of Neurology, Beth  
Israel Deaconess Medical Center,  
Harvard Medical School, 330  
Brookline Avenue, Boston, MA  
02215, USA

Deadline for manuscript  
submissions:

**10 September 2024**

### Message from the Guest Editors

The use of artificial intelligence as a sleep instrument in sleep medicine began only a few years ago, and evolved to aid in the clinical evaluation and important addition to the panel of available instruments detecting and assessing sleep disorders. Nowadays artificial intelligence is an integrative part of sleep medicine and will gain even more relevance in the near future with the increasingly use of wearables and nearables to assess sleep in the home environment.

This Special Issue aims to present cutting-edge data on artificial intelligence applications in sleep medicine, ranging from physiological sleep to the whole spectrum of sleep disorders. Topics which should be covered include narcolepsy/central hypersomnia, REM- and NREM-sleep parasomnias, restless leg syndrome, sleep-related breathing disorders and circadian rhythm disorders. We solicit studies investigating the link between sleep and health, with a special focus on cardiovascular diseases and brain health/neurodegeneration. Opinion pieces on how artificial intelligence is changing the sleep science field or overview works on this topic can also be included in this Special Issue.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Stephen D. Meriney

Department of Neuroscience,  
University of Pittsburgh,  
Pittsburgh, PA 15260, USA

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, CAPus / SciFinder, and other databases.

**Rapid Publication:** manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.6 days after submission; acceptance to publication is undertaken in 2.5 days (median values for papers published in this journal in the second half of 2023).

## Contact Us

Brain Sciences Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/brainsci](http://mdpi.com/journal/brainsci)  
[brainsci@mdpi.com](mailto:brainsci@mdpi.com)  
[X@BrainSci\\_MDPI](https://twitter.com/BrainSci_MDPI)