

## Special Issue

# Human Brain Dynamics: Latest Advances and Prospects—2nd Edition

### Message from the Guest Editor

In recent years, machine learning and artificial intelligence algorithms have been utilized to solve many fascinating problems in different fields of science, including neuroscience. In this Research Topic, we are aiming to unite researchers from machine learning and computational neuroscience and to stimulate collaboration between experts in these fields. More specifically, this collection of articles is intended to cover recent directions and activities in the field of machine learning, especially the recent paradigm of deep learning, in neuroscience dedicated to analysis, diagnosis, and modeling of the neural mechanisms of brain functions. We are seeking original research papers covering topics from systems/cognitive and computational neuroscience to neuroimaging and neural signal processing. Original research and reviews, as well as theoretical work, methods, and modeling articles are welcome. The research work includes experimental studies using state-of-the-art electrophysiology and neuroimaging as well as experimentally based computational or theoretical work and biologically inspired neural networks.

### Guest Editor

Dr. Stavros I. Dimitriadis

1. Department of Clinical Psychology and Psychobiology, University of Barcelona, Barcelona, Spain
2. Institut de Neurociències, University of Barcelona, Barcelona, Spain
3. Integrative Neuroimaging Lab, 55133 Thessaloniki, Macedonia, Greece
4. Neuroinformatics Group, Cardiff University Brain Research Imaging Centre, School of Psychology, Cardiff University, Cardiff CF24 4HQ, UK

### Deadline for manuscript submissions

closed (31 January 2024)



## Brain Sciences

an Open Access Journal  
by MDPI

Impact Factor 2.8  
CiteScore 5.6  
Indexed in PubMed



[mdpi.com/si/110871](https://mdpi.com/si/110871)

*Brain Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[brainsci@mdpi.com](mailto:brainsci@mdpi.com)

[mdpi.com/journal/](https://mdpi.com/journal/)

[brainsci](https://brainsci.mdpi.com)





# Brain Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.8  
CiteScore 5.6  
Indexed in PubMed



[mdpi.com/journal/  
brainsci](https://mdpi.com/journal/brainsci)



## 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.

---

### Editor-in-Chief

Prof. Dr. Stephen D. Meriney

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, PSYINDEX, PsycInfo, CAPlus / SciFinder, and other databases.

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.2 days after submission; acceptance to publication is undertaken in 1.9 days (median values for papers published in this journal in the first half of 2025).

#### Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.