Special Issue

Non-Invasive Neurotechnologies for Cognitive Augmentation

Message from the Guest Editors

Interest in cognitive augmentation has surged over the past two decades, driven by advances in brain–computer interfaces (BCIs), neuroimaging, and brain stimulation. This Special Issue invites cutting-edge contributions exploring the use of non-invasive neurotechnologies to enhance human cognition. We welcome original research and reviews on both closed-loop and open-loop BCIs designed for cognitive augmentation, including attention, memory, learning, and decision-making. Topics of interest include human–machine interaction mediated by non-invasive neurotechnology; neuroergonomics; brain stimulation techniques such as tDCS and TMS; neural decoding of cognitive states; adaptive neurotechnologies leveraging AI; clinical applications; and neurorehabilitation. We also encourage interdisciplinary work addressing the ethical, legal, and social implications of neuroenhancement. This issue aims to showcase advances that bridge neuroscience, engineering, and ethics, highlighting both current applications and future directions in non-invasive cognitive technologies. Researchers from academia, industry, and clinical practice are encouraged to contribute.

Guest Editors

Dr. Caterina Cinel

Brain-Computer Interfaces and Neural Engineering Laboratory, School of Computer Science and Electronic Engineering, University of Essex, Wivenhoe Park, Colchester CO4 3SQ, UK

Dr. Davide Valeriani

Technogym UK, Bracknell, UK

Dr. Saugat Bhattacharyya

School of Computing, Engineering and Intelligent Systems, Ulster University, Northern Ireland, Londonderry BT48 7JL, UK

Deadline for manuscript submissions

15 January 2026

Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed

mdpi.com/si/244096

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

mdpi.com/journal/brainsci

Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed

mdpi.com/journal/brainsci

MDPI

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, PSYNDEX, 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.