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.

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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/journal/
brainsci

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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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