Special Issue

Computational Methods in Neuroimaging: Advances and Challenges

Message from the Guest Editors

Artificial intelligence (AI) and machine learning (ML) techniques have been employed to address many complex problems in object detection and other fields. The ML strategies offer a robust approach to identifying and recognizing complex patterns and conducting different regression analyses to avoid the need for building the underlying physical models. Therefore, these technologies contribute significantly to the construction and optimization of computational neural models for imaging modalities.

This thematic issue will discuss recent advances, challenges, and future perspectives about computational models and methods along with neural networks used in neuroimaging for different applications. Researchers are invited to contribute original work related to this thematic issue, exploiting recent methodology using computational and mathematical techniques in neuroimaging, and addressing the challenges in developing dedicated systems for various clinical applications, while proposing new ideas and directions for future development.

We welcome original research and review articles from systems/cognitive and computational neuroscience, to neuroimaging and neural signal processing.

Guest Editors

Dr. Ali Yadollahpour
Department of Psychology, University of Sheffield, Sheffield, UK

Dr. Samaneh Rashidi
Department of Psychology, University of Surrey, Surrey, UK

Deadline for manuscript submissions

closed (30 September 2023)

Brain Sciences

an Open Access Journal by MDPI

Impact Factor 2.8
CiteScore 5.6
Indexed in PubMed

mdpi.com/si/139173

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

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.

Editor-in-Chief

Prof. Dr. Stephen D. Meriney
Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA 15260, USA

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