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Computational and Mathematical Methods for Neuroscience

Guest Editor:

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Deadline for manuscript submissions: closed (31 July 2024)

Message from the Guest Editor

Dear Colleagues,

This Special Issue is dedicated to exploring the profound impact of computational and mathematical methods in the realm of neuroscience. It showcases the integration of state-of-the-art techniques, including computational modeling, machine learning, network analysis, and braincomputer interfaces, which have significantly advanced comprehension of brain dynamics, network our interactions, cognitive functions, and behavior. The issue critically addresses the challenges related to data integration and model validation, underscoring the potential for groundbreaking discoveries that hold farreaching implications for medicine, technology, and our overall understanding of the human mind. We invite you to contribute your original research or review papers that delve into innovative physical, mathematical, biological, and medical approaches. Submissions showcasing cuttingedge technology and important applications are warmly welcomed. Through our collective effort, we aspire to improve our understanding of brain functionality and propel neuroscience into new frontiers of knowledge.



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Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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