Special Issue

Computational and Mathematical Methods for Neuroscience

Message from the Guest Editor

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 brain–computer interfaces, which have significantly advanced our comprehension of brain dynamics, network 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 far-reaching 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 cutting-edge 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.

Guest Editor

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Message from the Editor-in-Chief

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.

Editor-in-Chief

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