

Special Issue

Advances in Computational Neuroscience and Applications

Message from the Guest Editor

This Special Issue aims to explore the rapidly evolving field at the intersection of neuroscience and computational methods. As researchers continue to uncover the complexities of neural systems, novel computational models and algorithms inspired by these discoveries are emerging, driving advances in artificial intelligence, robotics, and data processing. This Special Issue will focus on bridging biological insights with engineering applications, offering a platform for multidisciplinary contributions that span from theoretical neural modeling to real-world implementations of neuro-inspired systems. By highlighting recent developments in areas such as spiking neural networks, neuromorphic computing, and brain–computer interfaces, this Special Issue will address both the foundational aspects of computational neuroscience and the latest neuro-inspired technologies. The ultimate goal is to present cutting-edge research that not only deepens our understanding of brain function but also leverages this knowledge for innovative computational approaches and applications in various industries.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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