

Special Issue

Advances and Applications in Computational Neuroscience

Message from the Guest Editors

The process of creating mathematical or computational models of neural processes and brain function is known as computational neuroscience. These models capture different features of brain activity. By comparing predictions with experimental data, data analysis techniques help to validate and refine these models. Applying this knowledge to various fields will help us gain a better understanding of psychiatric disorders. Moreover, computational neuroscience is crucial for understanding learning and memory processes in biological and artificial intelligence systems. We invite scientists from this interdisciplinary field to submit novel research papers that integrate theoretical advances in computational neuroscience and advances in data analysis techniques.

Guest Editors

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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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