

Special Issue

New Advances in Neural Networks and Applications

Message from the Guest Editors

This Special Issue aims to gather recent advancements, theoretical developments, and cutting-edge applications of neural networks. Topics of interest include, but are not limited to, the following:

- Dynamic neural networks for robot manipulation and control;
- Bio-inspired algorithms for neural network optimization;
- Neural network applications in finance, e.g., fraud detection, portfolio optimization, risk management;
- Advanced neural network architectures and training algorithms;
- Optimization methods for neural networks;
- Deep learning for image processing and computer vision;
- Applications in reinforcement learning and autonomous systems;
- Neural networks for time series prediction and financial forecasting;
- Theoretical analysis of neural networks and convergence properties;
- Hybrid neural network models and their applications;
- Neuromorphic computing and spiking neural networks;
- Applications in healthcare, bioinformatics, and personalized medicine.

Guest Editors

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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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