

Special Issue

Advances in Neural Networks and Their Applications

Message from the Guest Editor

In recent years, we have experienced tremendous change in the field of neural networks driven by groundbreaking innovations in Large Language Models (LLMs). In fact, these models, along with other cutting-edge neural architectures, are redefining our ability to process complex data. This, in turn, allows us to face new, unprecedented challenges. From self-driving cars to digital transformations in business and industry, neural networks have become the cornerstone of various innovations. This Special Issue of *Mathematics* aims to collect the most recent discoveries in the field of neural networks, with particular emphasis on theoretical foundations, algorithmic innovations, and advanced applications. The objective is to explore the intersection between mathematics and neural network research, highlighting both fundamental progress and practical implementations that address real-world challenges.

Guest Editor

Dr. Giorgia Minello

Department of Environmental Sciences, Informatics and Statistics, Ca' Foscari University, Venice, Italy

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Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

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Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).