

# Special Issue

## Research and Applications of Neural Networks and Fuzzy Logic

### Message from the Guest Editor

We are pleased to invite submissions to a Special Issue of *Mathematics* (MDPI) under the titled "Research and Applications of Neural Networks and Fuzzy Logic".

Contributions may address, but are not limited to, the following topics:

- Neural networks and fuzzy logic for pattern recognition and image analysis.
- Advanced control systems integrating fuzzy logic and neural networks.
- Decision-making processes using fuzzy logic and neural networks.
- Artificial intelligence and machine learning models integrating fuzzy logic for greater accuracy and flexibility.
- Data analysis and optimization using hybrid neuro-fuzzy systems.
- Health care and medical applications involving neuro-fuzzy systems and AI for diagnostics, treatment planning, and predictive analysis.
- Applications of CNNs and deep learning in combination with fuzzy logic.
- Optimization of neural network architectures for better performance and efficiency.
- Development of explainable AI (XAI) systems using fuzzy logic for interpretability and transparency.

### Guest Editor

Prof. Dr. Claudia I. González

Department of Computer Science, Tijuana Institute of Technology/TECNM, Tijuana, Mexico

### Deadline for manuscript submissions

30 November 2025



## Mathematics

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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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### Editor-in-Chief

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