

Special Issue

Mathematical, Optimization, and Computational Modeling in Machine Learning

Message from the Guest Editors

This Special Issue provides a premier venue for people working on mathematical modeling, optimization, and computational modeling trying to understand machine learning, a research area at the forefront of artificial intelligence. We invite authors to submit groundbreaking research on any of, but not limited to, the following topics: a) Mathematical modeling

- Optimization techniques for machine learning
- Mathematical foundations of machine learning
- Information theory and machine learning
- Geometric deep learning

b) Optimization

- Model selection through optimization
- Hyperparameter tuning using optimization algorithms
- Feature selection while aiming to achieve a specific goal
- Scheduling and resource allocation in machine learning

c) Computational modeling

- Machine learning for scientific computing
- Simulation-based modeling for machine learning
- Computational modeling of neural networks and brain-inspired approaches
- Data-driven modeling for complex systems

Guest Editors

Prof. Dr. Gustavo Olague

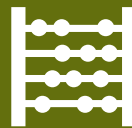
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Deadline for manuscript submissions

closed (30 March 2026)



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About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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