

Special Issue

Recent Advances in Mathematical Optimization and Related Topics

Message from the Guest Editors

Mathematical optimization provides powerful computational methods that enable researchers and practitioners to develop intelligent solutions to complex challenges involving multiple constraints, competing objectives, and intricate interdependencies. By leveraging advanced algorithmic approaches such as stochastic optimization and metaheuristic techniques, researchers can model real-world scenarios. Papers with mathematical analysis and real-world application are particularly welcome. Topics of interest include, but are not limited to, the following:

- Hybrid evolutionary algorithms for machine learning;
- Hybrid machine learning optimization frameworks;
- Stochastic optimization in dynamic complex systems;
- Evolutionary computation approaches to global optimization;
- Advanced optimization techniques in machine learning training;
- High-performance computing and parallel optimization strategies;
- Interdisciplinary applications of optimization techniques;
- Interdisciplinary applications of machine learning.

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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.

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