

Special Issue

Data-Driven or AI-Driven Optimization Algorithms and Their Applications

Message from the Guest Editors

Optimization is concerned with developing a set of modeling frameworks and solution techniques that allow practitioners to derive the best performance from a complex system. It is based on interdisciplinary expertise and skills in operations research, management science, industrial and systems engineering, and computer science. Optimization models and algorithms have been widely applied to industries such as manufacturing, mining, robotics, transportation, agriculture, energy grids, e-commerce, and healthcare. This Special Issue will focus on recent theoretical and applied studies of data-driven optimization problems, models, analysis, algorithms, and real-world implementations. We expect to receive papers that reflect the integration of advanced optimization techniques, technologies, and applications to address increasingly complex problems across various fields.

Guest Editors

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Prof. Dr. Yongman Zhao

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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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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).