Special Issue

Stochastic Modelling and Optimization

Message from the Guest Editors

Stochastic modeling and optimization are pivotal for solving complex real-world problems in finance, engineering, energy systems, and more. These methodologies offer robust solutions to manage uncertainty and improve efficiency. With growing data availability and recognition of uncertainty, advanced mathematical tools and efficient optimization algorithms are increasingly important. This Special Issue aims to present cutting-edge research in stochastic modeling, optimization methods, and applications, fostering interdisciplinary collaboration and innovation. By bridging theory with practice, it provides a platform for researchers to share insights and advance the field. We invite submissions on all aspects of stochastic modeling and optimization, including stochastic optimization, robust optimization, dynamic programming, large-scale and nonconvex optimization, and data-driven methods. Applications in finance, logistics, healthcare, engineering, transportation, manufacturing, energy systems, machine learning, and reinforcement learning are particularly welcome.

Guest Editors

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Dr. Shen Peng

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Deadline for manuscript submissions

24 March 2026

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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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