Special Issue

Advances in Optimal Decision Making Under Risk and Uncertainty

Message from the Guest Editor

Uncertainty is a pervasive characteristic in various real-world decision-making problems, widely involving fields such as financial market fluctuations, dynamic evolution of network systems, and risks in resource allocation. From a mathematical perspective, the theories and methods of uncertain optimization provide rigorous theoretical support and effective solution paths for solving optimal decision-making problems in complex systems by incorporating uncertain factors such as randomness and fuzziness into quantitative analysis frameworks. With the rapid development of big data technology and intelligent algorithms, the application value of uncertain optimization in practical scenarios such as the pricing of financial derivatives, the dynamic adjustment of investment portfolios, and the enhancement of supply chain network resilience has become increasingly prominent, making it a key bridge connecting mathematical theories and real-world decisions. We sincerely invite you to share your innovative research results in this field to jointly promote the deepening of uncertain optimization theories and the expansion of practical applications.

Guest Editor

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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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