Special Issue

Mathematical Modelling in Decision Making Analysis

Message from the Guest Editors

Mathematical modelling is playing an increasingly important role in all kinds of decision-making, as well as in logistics management. This approach encourages making decisions and objective assessments. Moreover, it also enables the properties of algebraic structures and optimisation models to be applied to practical problems, thus transferring the concepts of uniqueness, consistency and independence, which are characteristic of mathematics, to practical decisions. The effectiveness of logistics management depends on the quality of the management decisions made. However, making decisions in increasingly volatile, uncertain and complex environments is a challenge for logistics managers. The purpose of this Special Issue is to gather articles reflecting the latest developments in mathematical modelling in decision making analysis regarding uncertainty in various fields of logistics and the supply chain. Specific methods and application areas include, but are not limited to:

- Methods and applications of decision making in logistics;
- Multi-criteria decision making in logistics;
- Decision making and optimization in logistics;
- Decision models in logistics.

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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 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).

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