Special Issue

Data-Driven Decision Making: Models, Methods and Applications, 2nd Edition

Message from the Guest Editors

Data-driven decision making is becoming increasingly important in various fields of engineering and management, and it is more widely recognized with the rapid development of data science, decision science, and interpretable artificial intelligence. In real-world decision-making problems, data usually come from different sources in different formats and are often associated with various types of uncertainty, including randomness, incompleteness, inaccuracy, and inconsistency. In addition, subjective judgment and knowledge also play an important role in making informed decisions. This Special Issue aims to provide a forum for exchange of new findings and advances in the areas of data-driven decision making and decision analytics. The topics of interest for this Special Issue include but are not limited to:

- Data-driven modelling and inference;
- Decision making under uncertainty;
- Decision analysis in social networks;
- Group decision making;
- Multiple criteria decision analysis;
- Knowledge-based decision support;
- Decision analytics and interpretable artificial intelligence;
- Applications of data-driven decision making in engineering and management.

Guest Editors

Prof. Dr. Yu-Wang Chen

Prof. Dr. Mi Zhou

Tao Wen

Deadline for manuscript submissions

31 May 2025

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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