

Special Issue

Data Analytics and Machine Learning for Information Systems: Mathematical Methods and Applications

Message from the Guest Editors

Data analytics and AI have become crucial for modern management information systems (MIS), driving decision-making and business value. This special issue seeks papers on the **quantitative foundations of data analytics and machine learning in MIS**. We're looking for research that advances data-driven decision support through novel mathematical models, algorithms, and analytical frameworks. We welcome submissions that not only apply existing techniques but also extend the theory and methodology of data analytics or AI in ways relevant to information systems. Both theoretical and applied research are encouraged, as long as they highlight a strong mathematical or quantitative component. Topics of interest include, but are not limited to:

- **Big Data Analytics in MIS**
- **Machine Learning Applications**
- **Predictive Modeling and Forecasting**
- **Knowledge Discovery and Data Mining**
- **Natural Language and Text Analytics**
- **Deep Learning and AI in MIS**
- **Statistical and Probabilistic Models**
- **Data-Driven Optimization**

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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).