

Special Issue

Application of Mathematical Theory in Data Science

Message from the Guest Editors

The rapid development of data science calls for strong mathematical foundations to address the complexities of large-scale data analysis. This Special Issue focuses on the integration of mathematical theories into key areas of data science, such as machine learning, statistical modelling, data mining, and artificial intelligence (AI). We welcome contributions that highlight how mathematical methods enhance processes like data preprocessing, feature extraction, model building, and performance evaluation. We are particularly interested in works that explore the mathematical basis for ensuring the security, privacy, and robustness of data-driven systems. As AI and data technologies are increasingly applied in sensitive domains, ensuring their transparency, integrity, and resilience is critical. By uniting perspectives from mathematics and data science, this Special Issue aims to advance the development of more accurate, efficient, and secure data-driven solutions. Researchers from academia and industry are invited to submit innovative approaches to practical challenges.

Guest Editors

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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 17.3 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).