

Special Issue

New Trends in Advanced Statistical Techniques and AI: A Multidisciplinary Approach

Message from the Guest Editors

This Special Issue is designed for researchers, educators, and professionals seeking to apply advanced statistical techniques in their work, particularly in conjunction with artificial intelligence (AI) to enhance analytical capabilities and derive meaningful insights.

The rapid advancement of AI and statistical methodologies has significantly transformed different fields. This Special Issue aims to explore emerging trends in advanced statistical techniques and AI-based methodologies, with a particular focus on their interdisciplinary applications. It will serve as a platform for scholars to present innovative approaches, theoretical developments, and real-world applications that bridge the gap between traditional statistical methods and AI. Topics include, but are not limited to:

- Applications of AI and statistics in different areas such as education, engineering, healthcare, business, and social sciences;
- Cutting-edge AI and machine learning (ML) models with statistical foundations;
- High-dimensional data analysis and dimensionality reduction techniques;
- AI-based statistical inference and optimization;
- Statistical learning in big data;
- Multivariate statistical analysis.

Guest Editors

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Deadline for manuscript submissions

20 May 2026



Mathematics

an Open Access Journal
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Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/231246

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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).