

Special Issue

Advances in Probability and Statistics: Emerging Trends and Real-World Applications

Message from the Guest Editors

This Special Issue explores the methodologies used in contemporary real-world applications of probability (including stochastic processes) and statistics, underscored by the increasing adoption of data-driven approaches. These disciplines play a pivotal role in enabling robust predictions, uncertainty management, and informed decision making across diverse fields, including, but not limited to, the following:

- Machine Learning and Artificial Intelligence (Predictive Analytics, Natural Language Processing (NLP), Reinforcement Learning, Supervised and Unsupervised Learning);
- Healthcare and Medicine (Personalized Medicine, Epidemiology);
- Economics and Customer Analytics (Finance, Risk Management, Marketing, Business Analytics);
- Environmental Science (Climate Modeling, Resource Management);
- Engineering and Technology (Reliability, Manufacturing, Queueing Systems, Distributed Systems, Functional Safety);
- Social Sciences (Survey Analysis, Sentiment Analysis, Recommendation Systems, Decision Making).

We are pleased to invite you to submit high-quality original papers on a broad variety of topics in probability and statistics with applications in the mentioned fields.

Guest Editors

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Deadline for manuscript submissions

closed (9 December 2024)



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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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