

Special Issue

Applied Probability and Statistics: Theory, Methods, and Applications

Message from the Guest Editor

This Special Issue aims to provide a forum for recent advances in applied probability and statistics; it will emphasize both theoretical developments and methodological innovations with practical relevance. We welcome contributions that propose new probabilistic models, statistical inference techniques, or computational methods, as well as studies that apply established approaches in novel or challenging contexts.

Topics of interest include, but are not limited to, the following: stochastic processes, probabilistic modeling, statistical learning, high-dimensional inference, regularization and variable selection, resampling and bootstrap methods, uncertainty quantification, Bayesian and frequentist inference, and modern approaches to prediction and modeling. Contributions addressing complex data structures such as dependence, heterogeneity, or non-standard sampling schemes are particularly encouraged.

By bringing together methodological and applied contributions, this Special Issue seeks to highlight the versatility of probabilistic and statistical tools for addressing complex real-world problems while maintaining strong mathematical foundations.

Guest Editor

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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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