Statistics: Theories and Applications

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Deadline for manuscript submissions:
31 January 2025

Message from the Guest Editors

Today, the field of statistics is experiencing rapid growth fueled by emerging mathematical theories, technological innovations, fresh data streams stemming from contemporary challenges, and numerous connections forged between theory and application. The utilization of statistical theories and applications has become pervasive across various domains including actuarial science, biometrics, biomedical engineering, econometrics, environmental science, and financial markets. This Special Issue aims to highlight the significance and impact of statistics and its application, showcasing the latest advancements in statistical analysis, modeling, learning, and practical implementation. Topics include, but are not limited to, new developments in the following:

- Bayesian statistics;
- Model validation;
- Financial econometrics;
- Interval estimation and hypothesis testing;
- Quality control;
- Quantile regression—univariate and multivariate;
- Semi- and nonparametric modeling;
- Statistical learning with big data;
- Survival analysis;
- Genetics;
- Time series analysis—univariate and multivariate;
- Distributed/parallel computing.

Special Issue

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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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