



Applications and Analysis of Statistics and Data Science

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Deadline for manuscript
submissions:

closed (31 December 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to address the challenges and opportunities encountered while applying statistical and data science approaches across diverse domains. Topics including but not limited to:

1. Predictive modelling: employing statistical and data science techniques to develop accurate predictive models for applications such as financial forecasting, disease prediction, customer behaviour analysis, and demand forecasting.
2. Machine learning: Exploring the integration of statistical principles and machine learning algorithms, including classification, regression, clustering, and feature selection. Topics also encompass model interpretability, fairness, and robustness.
3. Big data analytics: Tackling challenges and leveraging opportunities in analysing and extracting insights from large-scale and high-dimensional datasets. Techniques of interest include data pre-processing, dimensionality reduction, distributed computing, and scalable algorithms.
4. Time series analysis: examining advanced statistical techniques for modelling and forecasting time series data, encompassing autoregressive models and state-space models and handling seasonality and nonstationary.





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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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