Special Issue

Advances in Statistical Methods with Applications

Message from the Guest Editors

This Special Issue on "Advances in Statistical Methods with Applications" aims to highlight recent advancements in statistical methods and their practical applications across various fields. Recognizing the vital role of statistics in modern research, this Special Issue brings together recent investigations, methodologies, and case studies to explore novel statistical approaches and their implementation. The articles featured in this Special Issue cover a wide range of topics, including, but not limited to, the following:

- Bayesian statistics and its applications;
- Machine learning techniques in statistical modeling;
- Multivariate analysis and its applications;
- Time series analysis and forecasting;
- Experimental design and optimization methods;
- Spatial statistics and spatial modeling;
- Regression analysis and modeling;
- Big data analytics and statistical inference;
- Decision theory and its applications;
- Reliability theory and its applications;
- Entropy and information studies.

Guest Editors

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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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