Advanced Statistical Application for Realistic Problems

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Message from the Guest Editor

Dear Colleagues,

In recent decades, both statistics and spatial statistics have witnessed remarkable advancements, largely attributed to the integration of computational techniques. These techniques not only offer insights into the mechanics and rationale behind existing statistical methods but also demonstrate their practical application to real-world challenges. A notable example is the fusion of machine learning with geostatistics, equipping us with innovative tools to explore and predict in earth sciences and delve into spatial processes.

Aligned with this trajectory, this Special Issue aims to curate a selection of articles that showcase the relevance of theoretical and computational statistics across diverse scientific disciplines. This encompasses areas like spatial processes in earth sciences, survival analysis in life sciences, reliability analysis in engineering, algorithmic developments in computer science, and modern challenges addressed through machine learning, among others.

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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