Special Issue

Statistics and Nonlinear Analysis: Simulation and Computation

Message from the Guest Editor

In this Special Issue, we encourage submissions providing new results in the setting of statistics and nonlinear analysis and their applications. Statistics and probability are important in many fields such as economy, sociology, psychology, forecasting, etc. Probability theory and distributions are used to define mathematical models in many branches of science. It is important to derive properties of distributions, estimate parameters, derive limit cases, or generalize results. Statistical research includes decision theory, estimation, hypothesis testing, large sample theory, asymptotic efficiency of estimators, exponential families, and sequential analysis. Statistical theory are also important in machine learning and big data science. Nonlinear analysis is devoted to nonlinear problems from different areas. The purpose of this Special Issue is to gather significant contributions that concern fixed point theory and analysis of partial differential equations as well as their applications to nonlinear analysis and optimization.

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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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