Special Issue

Computational and Machine Learning Methods in Spatial Statistical Modeling

Message from the Guest Editors

We are pleased to announce this Special Issue of the journal *Mathematics* entitled "Computational and Machine Learning Methods in Spatial Statistical Modeling." This Issue is intended to provide the latest development of computational and machine learning approaches in the context of spatial statistical modeling. It focuses on recent progress in learning techniques for spatial and spatiotemporal data, advances in computational methods, and practical use across scientific fields where location-based data play an essential role. The main topics of this Issue include, but are not limited to, the following: data-driven methods for spatial analysis, Bayesian approaches for spatial modeling, Generalized Linear Models and Autoregressive Models, predictive models using deep learning, applications of Gaussian processes for spatial estimation, statistical analysis of spatial point patterns, cluster detection and spatial scan statistics, kriging and geostatistical interpolation techniques, combining information from diverse spatial sources, evaluation of uncertainty in spatial predictions, and applied research that shows how these tools are used in practice.

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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