

Special Issue

Spatio-Temporal Statistics and Its Applications

Message from the Guest Editor

This Special Issue highlights the latest advancements in spatiotemporal modeling and its applications, which features several key areas of research: Deep learning advancements in spatiotemporal forecasting, which focuses on the use of deep learning models in spatiotemporal forecasting. Uncertainty quantification in spatiotemporal predictions, which explores methods for estimating and quantifying uncertainty intervals in spatiotemporal predictions. Scalable inference for non-Gaussian spatiotemporal models, which allow for efficient estimation and inference even with large-scale datasets. Causal inference in spatiotemporal modeling, which highlights the integration of causal inference methods with spatiotemporal models. Online learning approaches in spatiotemporal modeling–real-time adaptability, which focuses on adapting spatiotemporal models in real time as new data become available. By exploring deep learning, uncertainty quantification, scalable inference, causal inference, and online learning, this Special Issue provides valuable insights into the evolving field of spatiotemporal modeling and its diverse applications.

Guest Editor

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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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