Special Issue

Stochastic Statistics and Modeling

Message from the Guest Editors

This Special Issue of *Mathematics* will publish original research papers that cover the study of several topics related to the stochastic modeling of dynamical systems. The focus will be the introduction and study of new dynamic models that can model phenomena in areas of application. Contributions considering the study of existing models will also be welcome (inference, applications in real phenomena, resolution of problems related to the type of phenomenon under study, etc.) Potential topics include:

- Modeling by stochastic processes
- Inference in stochastic processes
- First-passage-times
- Computational methods for stochastic processes
- Dynamical systems estimation
- Signal processing
- Filtering and smoothing algorithms
- Applications in risk theory, insurance and mathematical finance, biosciences and environmental science, cell proliferation, and other areas of interest.

Guest Editors

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Deadline for manuscript submissions

closed (1 March 2021)

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).