Special Issue

Mathematical Models and Methods in Applied Economic Research

Message from the Guest Editors

Mathematical Economics is the application of mathematical methods to represent theories and analyze problems in economics. Economics has become increasingly dependent upon mathematical methods, and the mathematical tools it employs have become more sophisticated, helping to quantify the relationship between economic variables through stochastic and non-stochastic models. The aim of this Special Issue is to publish high-quality papers in Applied Economics with the use of mathematical models and methods and to promote academic exchange between a wide array of scholars. The applied quantitative methods will allow for a better understanding of the interactions between economic activities, and will contribute to the development of new models or the improvement of existing ones. The topics include, but are not limited to, the following:

- Financial mathematics;
- Time series forecasting models;
- Nonlinear time series;
- Nonlinear Granger causality;
- Decomposition of time series;
- Volatility modeling;
- State space modeling;
- Neural network method for nonlinear time series analysis;
- Machine Learning;
- Multivariate GARCH models.

Guest Editors

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Deadline for manuscript submissions

closed (15 November 2023)

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Mathematics

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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).