Special Issue

Advances in Theoretical and Empirical Economic Modeling

Message from the Guest Editors

In recent years, significant mathematical developments have been made in empirical and theoretical economic modeling in response to the growing complexity of the American and international economies. Economic models now commonly incorporate nonlinearity, asymmetry, globalization, and structural shifts. To tackle these challenges, advanced estimation techniques such as artificial intelligence (AI), time-varying parameters (TVP), Markov Chain Monte Carlo (MCMC), and factor analysis have gained considerable attention. We welcome submissions of mathematical and quantitative research works that have the potential to significantly advance the field of economic modeling. Specifically, we encourage submissions in the following areas: econometrics, macro-metrics, financial econometrics; quantitative economics; mathematical economics; mathematical modeling in economics and finance; optimization techniques; and stochastic optimization.

Guest Editors

Prof. Dr. Hany Guirguis
The O'Malley School of Business, Manhattan College, Riverdale, NY 10471, USA

Dr. Hyeon Park
The O'Malley School of Business, Manhattan College, Riverdale, NY 10471, USA

Deadline for manuscript submissions

31 August 2025

Σ

Mathematics

mdpi.com/journal/
mathematics

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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

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).

MDPI