

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.

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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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