

Special Issue

Mathematical Modelling in Financial Economics

Message from the Guest Editor

The deepening of the uncertainty of the financial market requires the academic circle to conduct profound research and theoretical exploration of the financial market and put forward new requirements for the mathematical model research in financial economics in order to improve the understanding of the financial market and financial institutions. Under uncertainty, mathematical modelling in financial economics involves the use of mathematical techniques to analyse risk evaluation, price securities, and the allocative efficiency of the market; estimate the potential impacts of events and policy on the market; and make informed investment decisions. It covers mathematical modelling topics in financial economics, such as probability and statistics, stochastic analysis, partial differential equations, numerical computation, financial econometrics, AI, and big data models. Submissions showcasing the latest developments in theoretical analysis models, numerical modelling and computation, AI, and big data methods are welcome.

Guest Editor

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Deadline for manuscript submissions

31 October 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



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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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