Special Issue

Advances in Mathematical Behavioural Finance and Decision Analysis

Message from the Guest Editors

Mathematical finance provides a fundamental framework for describing finance-related problems and phenomena. Through the application of a rigorous mathematical approach, mathematical finance addresses the definition of models aimed at understanding markets, asset valuation, and risk management to provide the decision-maker with a rational and structured framework for financial analysis. This Special Issue aims to report the latest progress in the theory of modern finance in real-world settings and make relevant case studies. Original research articles and reviews are welcome that address one or more of the following problems: financial risk management, mathematical and statistical finance modelling, decision-making, optimisation, financial applications, financial computation and modelling, and behavioural finance. Topics of interest include, but are not limited to, the issues presented. We look forward to receiving your contributions.

Guest Editors

Prof. Viviana Ventre

Prof. Salvador Cruz Rambaud

Dr. Annamaria Porreca

Deadline for manuscript submissions

closed (20 October 2025)

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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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