Special Issue

Applications of Quantitative Analysis in Financial Markets

Message from the Guest Editor

We invite researchers, academics, and practitioners to submit original research articles to a Special Issue of *Mathematics* entitled "Applications of Quantitative Analysis in Financial Markets". The application of quantitative analysis in financial markets has grown significantly in recent years. With the use of advanced technologies, financial investors are increasingly relying on quantitative analysis to make informed investment decisions, manage risks, and optimize their portfolios' performance. Governments are also guiding the development of financial markets through quantitative analysis, such as encouraging green finance and corporate social responsibility. These have led to an increased demand for research and analysis in this area. Based on the above background, we propose the following topics to consider:

- Portfolio optimization;
- Statistical analysis of financial data;
- Big data analytics in finance;
- Risk management and asset pricing;
- Environmental, social, and governance (ESG) factors in investment decision making;
- Modeling and simulation for green finance.

Guest Editor

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Deadline for manuscript submissions

closed (31 July 2025)

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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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