Special Issue

Research on Mathematical Modeling and Prediction of Financial Risks

Message from the Guest Editor

This Special Issue invites high-quality theoretical and empirical research papers that explore the development and application of mathematical models and analytical techniques in finance. In the past, modeling financial markets through mathematical models has been able to abstract and quantify these complex phenomena, thereby providing a solid theoretical foundation for risk assessment and management. This allows for better identification, quantification, and response to various risks, such as market risk, credit risk, and liquidity risk, thereby enhancing the stability of the financial system. It also provides a scientific basis for pricing complex financial instruments, maximizing returns under controllable risks, and offering powerful tools for predicting financial markets and supporting decision-making. This further demonstrates the importance of mathematical finance modeling and analysis.

Guest Editor

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Deadline for manuscript submissions

30 April 2026

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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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