

Special Issue

Modeling, Analysis and Optimization for Mathematical Finance, Economics and Risks, 2nd Edition

Message from the Guest Editors

This Special Issue seeks to advance the modeling, analysis, and optimization of risks in finance, insurance, and economics by exploring the intersection of traditional financial theories with contemporary technological and environmental considerations. We are interested in, but are not limited to, green finance and climate risk modeling, game-theoretic and advanced computational approaches, artificial intelligence and machine learning in risk management and optimization, data-driven financial and actuarial modeling, utilizing big data analytics to inform financial models, and enabling more precise forecasting and risk evaluation. The integration of diverse data sources, including alternative data, has become increasingly vital in developing comprehensive financial models. By interdisciplinary research that bridges finance, technology, and mathematics, this Special Issue aims to provide innovative solutions to the evolving challenges in financial and actuarial risk management. We encourage submissions that offer novel insights, methodologies, and applications that can advance the field and contribute to the development of more resilient and sustainable financial systems.

Guest Editors

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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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