

Special Issue

Advances in Financial Mathematics and Stochastic Processes

Message from the Guest Editor

This Special Issue aims to focus on the latest theoretical developments in financial mathematics and their applications in real financial markets, providing a platform for researchers from academia and industry to share their latest research results and practical insights. This Special Issue includes, but is not limited to, the following topics:

- **Financial Stochastic Processes:** Stochastic differential equations, jump-diffusion processes, stochastic volatility model.
- **Derivative Pricing and Risk Management:** New pricing models, risk measurement methodologies, hedging strategies, exotic options.
- **Portfolio Optimization and Asset Allocation:** Multi-objective optimization, robust optimization, dynamic asset allocation.
- **Financial Time Series Analysis:** Non-stationary time series, multivariate time series, long-range dependence modeling.
- **Financial Machine Learning:** Deep learning-based financial prediction, reinforcement learning for trading, text mining.
- **Systemic Risk and Financial Networks:** Financial connectedness, contagion effects, network risk modeling.
- **Latest Techniques in Computational Finance:** Monte Carlo methods, finite difference methods, quantum algorithm.

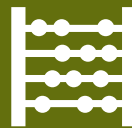
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About the Journal

Message from the Editor-in-Chief

Axioms is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

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