Special Issue

Quantitative Methods in Digital Finance

Message from the Guest Editors

This Special Issue aims to explore the intersection of quantitative methods and digital finance, examining how traditional financial mathematics can adapt to emerging FinTech applications. The rapid development of cryptocurrencies, blockchain technology, and decentralized finance (DeFi) has created new opportunities for applying techniques such as machine learning and optimization, while also introducing novel challenges that demand innovative quantitative approaches. We invite original research articles that advance both theoretical understanding and practical implementation of quantitative methods in digital finance, including applications in machine learning, cryptocurrency modeling, DeFi protocols, robo-advisory systems, and regulatory technology. We particularly encourage interdisciplinary contributions from finance, mathematics, computer science, and economics. Topics of interest include, but are not limited to, behavioral finance in digital contexts, blockchain-based financial instruments, automated market makers, risk management in decentralized systems, and novel computational techniques for digital asset pricing and portfolio optimization.

Guest Editors

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Dr. Stephen Chan
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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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