

Special Issue

Stochastic Control and Optimization in Mathematical Finance

Message from the Guest Editors

Stochastic control and optimization have become indispensable tools in modern financial modeling and decision making. The dynamic nature of financial markets, coupled with the presence of uncertainty and risk, requires sophisticated mathematical techniques for the effective management and optimization of financial resources. This Special Issue aims to explore the intricate interplay between stochastic control theory, optimization techniques, and their applications in mathematical finance. It aims to provide a platform for researchers and practitioners to present their latest findings, and methods and insights related to tackling complex financial problems through stochastic control and optimization frameworks. This Special Issue welcomes contributions that address theoretical developments, algorithmic innovations, and empirical studies in areas including, but not limited to, portfolio optimization, risk management, derivative pricing, and asset allocation under uncertainty.

Guest Editors

Prof. Dr. Qi Wang

School of Mathematics, Southwestern University of Finance and Economics, Chengdu 611130, China

Prof. Dr. Juho Kannianen

Department of Computational Sciences, Tampere University, 33720 Tampere, Finland

Deadline for manuscript submissions

30 September 2025



Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



mdpi.com/si/201593

Mathematics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
mathematics@mdpi.com

[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)





Mathematics

an Open Access Journal
by MDPI

Impact Factor 2.2
CiteScore 4.6



[mdpi.com/journal/
mathematics](https://mdpi.com/journal/mathematics)



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.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University,
The Gateway, Leicester LE1 9BH, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), RePEc, and other databases.

Journal Rank:

JCR - Q1 (Mathematics) / CiteScore - Q1 (General Mathematics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).