Modern Trends in Mathematics, Probability and Statistics for Finance

Guest Editor:

Dr. Nguyet Nguyen
Department of Mathematics & Statistics, Youngstown State University, Youngstown, OH 44555, USA

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Message from the Guest Editor

Welcome to this Special Issue dedicated to exploring the intricate relationship between mathematics, probability, and statistics in the realm of finance. In today's fast-paced and ever-evolving financial landscape, understanding the underlying mathematical principles, probabilistic models, and statistical methods is crucial for making informed decisions, managing risk, and uncovering new avenues for financial innovation.

This issue brings together a collection of cutting-edge research articles and insightful contributions from leading experts in the field. From advanced mathematical modeling techniques to sophisticated probabilistic frameworks, and from empirical studies to theoretical advancements, each article offers valuable insights into the application of mathematical and statistical methodologies in finance.

By delving into these topics, we aim to provide readers with a comprehensive understanding of the mathematical and statistical tools that underpin modern finance and their practical implications for investment, risk management, and financial decision-making.

Special Issue

Editor-in-Chief

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

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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