

Journal of Mathematical Finance



ISSN: 2162-2434



Journal Editorial Board

ISSN: 2162-2434 (Print), 2162-2442 (Online)

<http://www.scirp.org/journal/jmf/>

Editor-in-Chief

Prof. Moawia Alghalith

University of the West Indies, Trinidad-and-Tobago

Associate Editors-in-Chief

Dr. Fariba Hashemi

Applied Economics Research, Switzerland

Prof. Haim Levy

Hebrew University, Israel

Dr. Stephen Ellwood Satchell

Sydney University, Australia

Prof. Tony S. Wirjanto

University of Waterloo, Canada

Prof. Wing-Keung Wong

Asia University, Chinese Taipei

Editorial Advisory Board

Dr. Ricardas Zitikis

University of Western Ontario, Canada

Honorary Editorial Board

Prof. Christopher Adcock

SOAS-University of London, UK

Prof. Frank J. Fabozzi

EDHEC Business School, France

Prof. Michael McAleer

Erasmus University Rotterdam, The Netherlands

Editorial Board

Mr. Ankit Agarwal

University of Chicago, USA

Dr. Luca Vincenzo Ballestra

Department of Statistical Sciences, University of Bologna, Italy

Prof. Udo Broll

TU Dresden, Germany

Prof. Raymond Hon-Fu Chan

The Chinese University of Hong Kong, China

Dr. Umberto Cherubini

University of Bologna, Italy

Prof. Martín Egozcue

University of the Republic, Uruguay

Dr. Yaqin Feng

Ohio University, USA

Prof. Richard W. Gorvett

University of Illinois, USA

Dr. Zhengfeng Guo

Vanderbilt University, USA

Prof. Xue-Zhong (Tony) He

University of Technology, Australia

Prof. Ivan Ganchev Ivanov

Sofia University "St. Kl. Ohridski", Bulgaria

Prof. Jau-Lian Jeng

Azusa Pacific University, USA

Prof. Yong H. Kim

University of Cincinnati, USA

Dr. Ka-Chi Lam

City University of Hong Kong, China

Prof. Donald Lien

University of Texas at San Antonio, USA

Dr. Jia Liu

Bloomberg LP, USA

Prof. Alexander Melnikov

University of Alberta, Canada

Dr. Gareth William Peters

University College London, UK

Dr. Hermann Ratsimbanierana

University of Perpignan, France

Prof. Goutte Stéphane

University of Paris Diderot, France

Dr. Dimitrios Vortelinos

University of Lincoln, UK

Table of Contents

Volume 9 Number 3

August 2019

Portfolio Selection in Mean-Minimum Return Level-Expected Bounded First Passage Time Framework	
T. Kutalia.....	229
Bank Portfolio Management under Credit Market Imperfections	
I. Mallick.....	239
Optimal Investment and Risk Control Strategies for an Insurance Fund in Stochastic Framework	
P. K. Mwanakatwe, X. G. Wang, Y. Su.....	254
Possibility for Short-Term Forecasting of Japanese Stocks Return by Randomly Distributed Embedding Theory	
S. Sugitomo, K. Maeta.....	266
Application of Linear Programming in Optimizing Labour Scheduling	
O. Y. M. Al-Rawi, T. Mukherjee.....	272
Modelling Obsolescence Risk and Taxation in Project Valuation	
V. Hooper, J. Pointon.....	286
Hedging the Treasury Lock	
M. Pucci.....	301
Effect of Feedback on eBay Sellers' Business Using Markov Chain	
Y. M. Dib, N. Roumieh, G. Saab, M. Maroun.....	325
Optimal Portfolio Choice in a Jump-Diffusion Model with Self-Exciting	
B. J. Bian, X. F. Chen, X. D. Zeng.....	345
The Impact of Stock Names on the Expected Stock Return	
S. Song, R. Li.....	368
A Valuation Model for the Variable Rate Demand Obligation	
V. Hooper, J. Pointon.....	388
A Valuation Model for Callable Eurobonds	
V. Hooper, J. Pointon.....	394

Forecasting the Impact of Information Security Breaches on Stock Market Returns and VaR Backtest

I. Colivicchi, R. Vignaroli.....402

Embedding Stochastic Correlation into the Pricing of FX Quanto Options under Stochastic Volatility Models

T. Pellegrino.....455

Fast Fourier Transform Based Computation of American Options under Economic Recession Induced Volatility Uncertainty

P. A. Bankole, O. O. Ugbebor.....494

Credit Scoring with Ego-Network Data

S. Sewe, P. Ngare, P. Weke.....522

A General Framework of Optimal Investment

L. L. Zhang.....535

Derivatives Pricing via Machine Learning

T. T. Ye, L. L. Zhang.....561

Journal of Mathematical Finance (JMF)

Journal Information

SUBSCRIPTIONS

The *Journal of Mathematical Finance* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2019 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

Copyright for individual papers of the journal:

Copyright © 2019 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

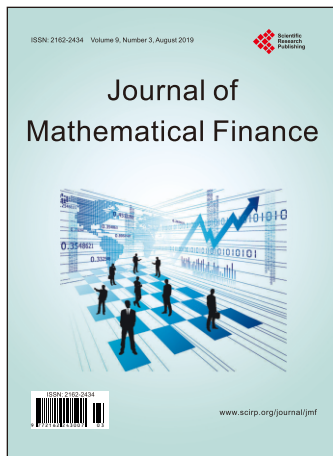
Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: jmf@scirp.org



Journal of Mathematical Finance (JMF)

ISSN 2162-2434 (Print) ISSN 2162-2442 (Online)
<http://www.scirp.org/journal/jmf/>

Journal of Mathematical Finance (JMF) aims at presenting the latest development on pure and applied financial mathematics. It considers important theoretical, empirical and review papers.

Editor-in-Chief

Prof. Moawia Alghalith

University of the West Indies, Trinidad-and-Tobago

Editorial Board

Mr. Ankit Agarwal

Dr. Luca Vincenzo Ballestra

Prof. Udo Broll

Prof. Raymond Hon-Fu Chan

Dr. Umberto Cherubini

Prof. Martín Egozcue

Dr. Yaqin Feng

Prof. Richard W. Gorvett

Dr. Zhengfeng Guo

Prof. Xue-Zhong (Tony) He

Prof. Ivan Ganchev Ivanov

Prof. Jau-Lian Jeng

Prof. Yong H. Kim

Dr. Ka-Chi Lam

Prof. Donald Lien

Dr. Jia Liu

Prof. Alexander Melnikov

Dr. Gareth William Peters

Dr. Hermann Ratsimbanierana

Prof. Goutte Stéphane

Dr. Dimitrios Vortelinos

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

- Financial Engineering
- Financial Statistics
- Pricing Theory of Securities and Portfolio
- Quantitative Economics
- Solutions to PDEs
- Stochastic Optimization and Control
- Stochastic Processes

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

[Http://www.scirp.org/journal/jmf](http://www.scirp.org/journal/jmf)

E-mail: jmf@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



Scientific
Research
Publishing

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org