

Nonlinear Models in Mathematical Finance

*New Research Trends in
Option Pricing*



Matthias Ehrhardt
Editor

NOVA

Nonlinear Models In Mathematical Finance New Research Trends In Option Pricing

Anatoly B. Schmidt



Nonlinear Models In Mathematical Finance New Research Trends In Option Pricing:

Nonlinear Models in Mathematical Finance Matthias Ehrhardt, 2014-05-14 Novel Methods in Computational Finance Matthias Ehrhardt, Michael Günther, E. Jan W. ter Maten, 2017-09-19 This book discusses the state of the art and open problems in computational finance. It presents a collection of research outcomes and reviews of the work from the STRIKE project, an FP7 Marie Curie Initial Training Network (ITN) project in which academic partners trained early stage researchers in close cooperation with a broader range of associated partners including from the private sector. The aim of the project was to arrive at a deeper understanding of complex, mostly nonlinear financial models and to develop effective and robust numerical schemes for solving linear and nonlinear problems arising from the mathematical theory of pricing financial derivatives and related financial products. This was accomplished by means of financial modelling, mathematical analysis and numerical simulations, optimal control techniques and validation of models. In recent years, the computational complexity of mathematical models employed in financial mathematics has witnessed tremendous growth. Advanced numerical techniques are now essential to the majority of present day applications in the financial industry. Special attention is devoted to a uniform methodology for both testing the latest achievements and simultaneously educating young PhD students. Most of the mathematical codes are linked into a novel computational finance toolbox which is provided in MATLAB and PYTHON with an open access license. The book offers a valuable guide for researchers in computational finance and related areas, e.g. energy markets with an interest in industrial mathematics.

Recent Advances In Financial Engineering 2014 - Proceedings Of The Tmu Finance Workshop 2014 Masaaki Kijima, Yukio Muromachi, Takashi Shibata, 2016-02-29 Since 2004 the Tokyo Metropolitan University (TMU) has been conducting workshops that serve as a forum for academic researchers and practitioners to exchange ideas and developments in different fields of finance. This book is based on papers presented at the 2014 workshop held in Tokyo on 6-7 November 2014. The chapters address state of the art techniques in mathematical finance and financial engineering. The authors share ideas and information on new methods and up to date results of their research in these fields. This book is a must read for researchers, practitioners and graduate students in the fields of mathematical finance, quantitative finance and financial engineering.

Nonlinear Investing: A Quantamental Approach Lingjie Ma, 2025-01-10 This book focuses on nonlinear investing with a quantamental approach. Pricing relationships in financial markets are often nonlinear, which raises serious questions for portfolio management: How can we characterize nonlinear patterns in asset pricing? Why do such nonlinear patterns occur and in what contexts? How can we know whether such relationships will persist in the future? And how much is the value added by a nonlinear over a linear model? These questions cannot be answered by piecing together fundamental prospects based on personal experience and preference, which can be biased, or by torturing the data to make it confess whatever we want, particularly big data, which allows more freedom for data mining. Rather, nonlinear investing should rely on both fundamental insights and quantitative analysis. The

former ensures that similar nonlinear patterns will occur in the future and the latter validates the nonlinear pattern with historical data In this way quant marries fundamental a quantamental approach The book provides a systematic guide to conducting nonlinear investing through quantamental analysis The author demonstrates how nonlinear investment strategies achieving both depth and breadth add significant value to portfolio performance for different asset classes The primary audience for this book is senior professional investors and quant fundamental investment shops who look for new ideas to enhance their existing products or develop new products The book will also be helpful to finance faculty and graduate students who are interested in frontier industry practices

Mathematical Control Theory and Finance Andrey Sarychev, Albert Shiryaev, Manuel Guerra, Maria do Rosário Grossinho, 2009-03-31 Control theory provides a large set of theoretical and computational tools with applications in a wide range of elds running from pure branches of mathematics like geometry to more applied areas where the objective is to nd solutions to real life problems as is the case in robotics control of industrial processes or nance The high tech character of modern business has increased the need for advanced methods These rely heavily on mathematical techniques and seem indispensable for competitiveness of modern enterprises It became essential for the nancial analyst to possess a high level of mathematical skills Conversely the complex challenges posed by the problems and models relevant to nance have for a long time been an important source of new research topics for mathematicians The use of techniques from stochastic optimal control constitutes a well established and important branch of mathematical nance Up to now other branches of control theory have found comparatively less application in ncial problems To some extent deterministic and stochastic control theories developed as di erent branches of mathematics However there are many points of contact between them and in recent years the exchange of ideas between these elds has intensi ed Some concepts from stochastic calculus e g rough paths have drawn the attention of the deterministic control theory community Also some ideas and tools usual in deterministic control e g geometric algebraic or functional analytic methods can be successfully applied to stochastic c trol

Tools for Computational Finance Rüdiger U. Seydel, 2012-03-09 The disciplines of financial engineering and numerical computation differ greatly however computational methods are used in a number of ways across the field of finance It is the aim of this book to explain how such methods work in financial engineering specifically the use of numerical methods as tools for computational finance By concentrating on the field of option pricing a core task of financial engineering and risk analysis this book explores a wide range of computational tools in a coherent and focused manner and will be of use to the entire field of computational finance Starting with an introductory chapter that presents the financial and stochastic background the remainder of the book goes on to detail computational methods using both stochastic and deterministic approaches Now in its fifth edition Tools for Computational Finance has been significantly revised and contains A new chapter on incomplete markets which links to new appendices on Viscosity solutions and the Dupire equation Several new parts throughout the book such as that on the calculation of sensitivities Sect 3.7 and the introduction of penalty

methods and their application to a two factor model Sect 6 7 Additional material in the field of analytical methods including Kim s integral representation and its computation Guidelines for comparing algorithms and judging their efficiency An extended chapter on finite elements that now includes a discussion of two asset options Additional exercises figures and references Written from the perspective of an applied mathematician methods are introduced as tools within the book for immediate and straightforward application A learning by calculating approach is adopted throughout this book enabling readers to explore several areas of the financial world Interdisciplinary in nature this book will appeal to advanced undergraduate students in mathematics engineering and other scientific disciplines as well as professionals in financial engineering

Recent Advances in Financial Engineering 2014 Masaaki Kijima,Yukio Muromachi,Takashi Shibata (Associate professor),2016 Since 2004 the Tokyo Metropolitan University TMU has been conducting workshops that serve as a forum for academic researchers and practitioners to exchange ideas and developments in different fields of finance This book is based on papers presented at the 2014 workshop held in Tokyo on 6 7 November 2014 The chapters address state of the art techniques in mathematical finance and financial engineering The authors share ideas and information on new methods and up to date results of their research in these fields This book is a must read for researchers practitioners and graduate students in the fields of mathematical finance quantitative finance and financial engineering Provided by publisher

Progress in Industrial Mathematics at ECMI 2010 Michael Günther,Andreas Bartel,Markus Brunk,Sebastian Schöps,Michael Striebel,2012-04-05 ECMI the European Consortium for Mathematics in Industry is the European brand associated with applied mathematics for industry and organizes highly successful biannual conferences In this series the ECMI 2010 the 16th European Conference on Mathematics for Industry was held in the historic city hall of Wuppertal in Germany It covered the mathematics of a wide range of applications and methods from circuit and electromagnetic device simulation to model order reduction for chip design uncertainties and stochastics production fluids life and environmental sciences and dedicated and versatile methods These proceedings of ECMI 2010 emphasize mathematics as an innovation enabler for industry and business and as an absolutely essential pre requisite for Europe on its way to becoming the leading knowledge based economy in the world *Advanced Financial Modelling* Hansjörg Albrecher,Wolfgang J.

Runggaldier,Walter Schachermayer,2009-12-15 This book is a collection of state of the art surveys on various topics in mathematical finance with an emphasis on recent modelling and computational approaches The volume is related to a Special Semester on Stochastics with Emphasis on Finance that took place from September to December 2008 at the Johann Radon Institute for Computational and Applied Mathematics of the Austrian Academy of Sciences in Linz Austria

Mathematics of Continuous and Discrete Dynamical Systems Abba B. Gumel,2014-06-18 This volume contains the proceedings of the AMS Special Session on Nonstandard Finite Difference Discretizations and Nonlinear Oscillations in honor of Ronald Mickens s 70th birthday held January 9 10 2013 in San Diego CA Included are papers on design and analysis

of discrete time and continuous time dynamical systems arising in the natural and engineering sciences in particular the design of robust nonstandard finite difference methods for solving continuous time ordinary and partial differential equation models the analytical and numerical study of models that undergo nonlinear oscillations as well as the design of deterministic and stochastic models for epidemiological and ecological processes Some of the specific topics covered in the book include the analysis of deterministic and stochastic SIR type models the assessment of cost effectiveness of vaccination problems finite difference methods for oscillatory dynamical systems including the Schrödinger equation and Brusselator system the design of exact and elementary stable finite difference methods the study of a two patch model with Allee effects and disease modified fitness the study of the delay differential equation model with application to circadian rhythm and the application of some special functions in the solutions of some problems arising in the natural and engineering sciences A notable feature of the book is the collection of some relevant open problems intended to help guide the direction of future research in the area

Numerical Methods and Applications Lirkov Ivan Dimov, Stefka Dimova, Natalia Kolkovska, 2011-01-27 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Numerical Methods and Applications NMA 2010 held in Borovets Bulgaria in August 2010 The 60 revised full papers presented together with 3 invited papers were carefully reviewed and selected from numerous submissions for inclusion in this book The papers are organized in topical sections on Monte Carlo and quasi Monte Carlo methods environmental modeling grid computing and applications metaheuristics for optimization problems and modeling and simulation of electrochemical processes

Large-Scale Scientific Computing Ivan Lirkov, Svetozar Margenov, 2018-01-10 This book constitutes the thoroughly refereed post conference proceedings of the 11th International Conference on Large Scale Scientific Computations LSSC 2017 held in Sozopol Bulgaria in June 2017 The 63 revised short papers together with 3 full papers presented were carefully reviewed and selected from 63 submissions The conference presents results from the following topics Hierarchical adaptive domain decomposition and local refinement methods Robust preconditioning algorithms Monte Carlo methods and algorithms Numerical linear algebra Control and optimization Parallel algorithms and performance analysis Large scale computations of environmental biomedical and engineering problems The chapter Parallel Aggregation Based on Compatible Weighted Matching for AMG is available open access under a CC BY 4.0 license

Geometrical Properties Of Differential Equations: Applications Of The Lie Group Analysis In Financial Mathematics Ljudmila A Bordag, 2015-05-27 This textbook is a short comprehensive and intuitive introduction to Lie group analysis of ordinary and partial differential equations This practical oriented material contains a large number of examples and problems accompanied by detailed solutions and figures In comparison with the known beginner guides to Lie group analysis the book is oriented toward students who are interested in financial mathematics mathematical finance and economics We provide the results of the Lie group analysis of actual models in Financial Mathematics using recent publications These models are usually formulated as nonlinear partial

differential equations and are rather difficult to make use of With the help of Lie group analysis it is possible to describe some important properties of these models and to obtain interesting reductions in a clear and understandable algorithmic way The book can serve as a short introduction for a further study of modern geometrical analysis applied to models in financial mathematics It can also be used as textbook in a master s program in an intensive compact course or for self study The textbook with a large number of examples will be useful not only for students who are interested in Financial Mathematics but also for people who are working in other areas of research that are not directly connected with Physics for instance in such areas of Applied Mathematics like mathematical economy bio systems coding theory etc

Mathematics for Sustainable Industry Ahmad Fadillah Embong,Zaitul Marlizawati Zainuddin,Ani Shabri,Fatin Nadiyah Mohamed Yussof,2025-05-29 This volume gathers selected peer reviewed contributions presented at the 5th International Seminar on Mathematics in Industry ISMI2024 held on September 9 11 2024 in Kuala Lumpur Malaysia Articles in this volume touch on fields such as applied mathematics applied probability theory and stochastic modeling statistical modeling operations research biomathematics optimization inventory management supply chain and computational mathematics all with an emphasis on solutions to real world problems Many of the studies contained here closely relate to the United Nations Sustainable Development Goals namely SDG 9 Industry and SDG 3 Health potentially inspiring practitioners and scholars to deploy these findings and pursue similar avenues of research Since its inception in 2013 ISMI has been organized by the Centre for Industrial and Applied Mathematics UTM CIAM and the Department of Mathematical Sciences Universiti Teknologi Malaysia UTM with the aims of disseminating knowledge sharing experiences in research on various aspects of industrial mathematics and statistics and fostering collaboration among academia government agencies industry and community

Progress in Industrial Mathematics at ECMI 2014 Giovanni Russo,Vincenzo Capasso,Giuseppe Nicosia,Vittorio Romano,2017-09-04 This book presents a collection of papers emphasizing applications of mathematical models and methods to real world problems of relevance for industry life science environment finance and so on The biannual Conference of ECMI the European Consortium of Mathematics in Industry held in 2014 focused on various aspects of industrial and applied mathematics The five main topics addressed at the conference were mathematical models in life science material science and semiconductors mathematical methods in the environment design automation and industrial applications and computational finance Several other topics have been treated such as among others optimization and inverse problems education numerical methods for stiff pdes model reduction imaging processing multi physics simulation mathematical models in textile industry The conference which brought together applied mathematicians and experts from industry provided a unique opportunity to exchange ideas problems and methodologies bridging the gap between mathematics and industry and contributing to the advancement of science and technology The conference has included a presentation of EU Maths In European Network of Mathematics for Industry and Innovation a recent joint initiative of ECMI

and EMS The proceedings from this conference represent a snapshot of the current activity in industrial mathematics in Europe and are highly relevant to anybody interested in the latest applications of mathematics to industrial problems

Non-Life Insurance-Linked Securities: Risk and Pricing Analysis Thomas Nowak, 2014-09-25 Unter Insurance Linked Securities ILS versteht man innovative Finanzprodukte welche Versicherungsrisiken aus den eng abgegrenzten Märkten der Erst und Rückversicherungsirtschaft herauslösen und mittels Verbriefung auf Kapitalmärkten handelbar machen Durch ILS erhalten Investoren die Möglichkeit für die Bereitstellung von Deckungskapital in Versicherungsrisiken zu investieren und im Gegenzug eine Versicherungsprämie zu erhalten Hierbei verfolgt das Werk zwei Ziele Zum Einen die Durchführung einer genauen Analyse der zugrunde liegenden Zahlungsstruktur der beworbenen Eigenschaften und jener Risiken welche mit einer Investition in ILS verbunden sind Zum Anderen die Überprüfung der Anwendbarkeit und Passgenauigkeit vorgeschlagener versicherungsmathematischer und marktorientierter Bewertungsverfahren für ILS sowie die Unterbreitung möglicher Vorschläge für Bewertungsverfahren Da ILS regelmäßig dazu verwendet werden Extremrisiken zu verbrieft werden beide Untersuchungen unter expliziter Berücksichtigung der statistischen Eigenschaften von Extremrisiken durchgeführt Im Ergebnis lässt sich festhalten dass ILS Investitionen mit eigenen Spezifika darstellen Investoren sollten diese kennen und berücksichtigen Dies gilt gerade vor dem Hintergrund der stetig steigenden Zahl von ILS welche insbesondere in den Zeiten der Niedrigzinsphase als attraktives Investment gesehen werden Das Buch richtet sich an Investoren und Interessierte die sich über ILS als Investitionen und deren Bewertung informieren möchten

Emerging Trends in Smart Societies Worakamol Wisetsri, Philip Clingan, Rocky J. Dwyer, Dilrabo Bakhronova, 2024-06-24 Emerging Trends in Smart Societies Interdisciplinary Perspectives captures the essence of the groundbreaking initiative heralded by the inaugural International Conference on Humanities for Smart Societies 2023 HMSS 23 This milestone event convenes a global cohort of scholars policymakers and thinkers transcending geographical confines via a pioneering virtual platform The book crystallizes the convergence of diverse disciplines from humanities to management fostering an exchange of innovative ideas vital for sustainable digitally transformed societies By orchestrating cross disciplinary dialogues this anthology unveils novel solutions and holistic approaches to contemporary challenges

New Concepts and Trends of Hybrid Multiple Criteria Decision Making Gwo-Hshiung Tzeng, Kao-Yi Shen, 2017-08-15 When people or computers need to make a decision typically multiple conflicting criteria need to be evaluated for example when we buy a car we need to consider safety cost and comfort Multiple criteria decision making MCDM has been researched for decades Now as the rising trend of big data analytics in supporting decision making MCDM can be more powerful when combined with state of the art analytics and machine learning In this book the authors introduce a new framework of MCDM which can lead to more accurate decision making Several real world cases will be included to illustrate the new hybrid approaches

Trends in PDE Constrained Optimization Günter Leugering, Peter Benner, Sebastian Engell, Andreas Griewank, Helmut Harbrecht, Michael Hinze, Rolf

Rannacher, Stefan Ulbrich, 2014-12-22 Optimization problems subject to constraints governed by partial differential equations PDEs are among the most challenging problems in the context of industrial economical and medical applications Almost the entire range of problems in this field of research was studied and further explored as part of the Deutsche Forschungsgemeinschaft DFG priority program 1253 on Optimization with Partial Differential Equations from 2006 to 2013 The investigations were motivated by the fascinating potential applications and challenging mathematical problems that arise in the field of PDE constrained optimization New analytic and algorithmic paradigms have been developed implemented and validated in the context of real world applications In this special volume contributions from more than fifteen German universities combine the results of this interdisciplinary program with a focus on applied mathematics The book is divided into five sections on Constrained Optimization Identification and Control Shape and Topology Optimization Adaptivity and Model Reduction Discretization Concepts and Analysis and Applications Peer reviewed research articles present the most recent results in the field of PDE constrained optimization and control problems Informative survey articles give an overview of topics that set sustainable trends for future research This makes this special volume interesting not only for mathematicians but also for engineers and for natural and medical scientists working on processes that can be modeled by PDEs

Quantitative Finance for Physicists Anatoly B. Schmidt, 2010-07-19 With more and more physicists and physics students exploring the possibility of utilizing their advanced math skills for a career in the finance industry this much needed book quickly introduces them to fundamental and advanced finance principles and methods Quantitative Finance for Physicists provides a short straightforward introduction for those who already have a background in physics Find out how fractals scaling chaos and other physics concepts are useful in analyzing financial time series Learn about key topics in quantitative finance such as option pricing portfolio management and risk measurement This book provides the basic knowledge in finance required to enable readers with physics backgrounds to move successfully into the financial industry Short self contained book for physicists to master basic concepts and quantitative methods of finance Growing field many physicists are moving into finance positions because of the high level math required Draws on the author's own experience as a physicist who moved into a financial analyst position

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