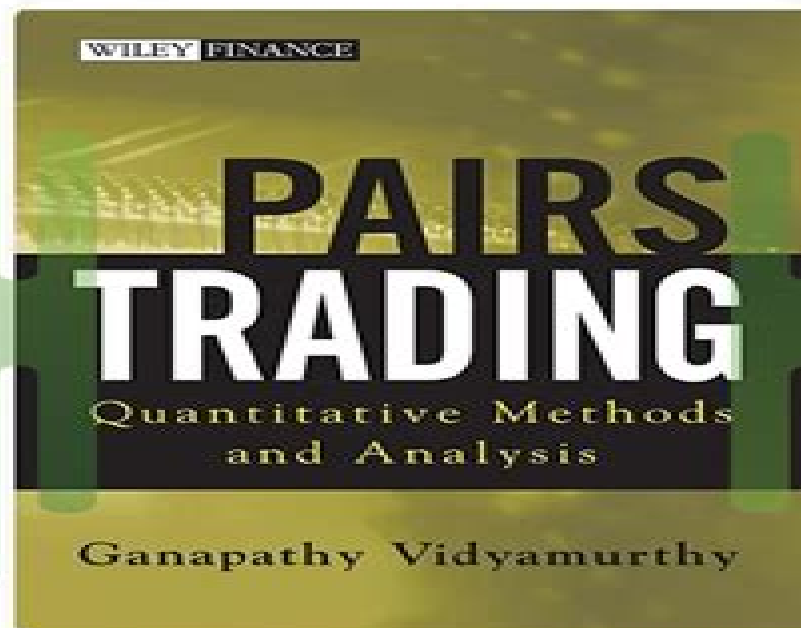




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Quantitative Methods for Economics and Finance J.E. Trinidad-Segovia, Miguel Ángel Sánchez-Granero, 2021-02-12 This book is a collection of papers for the Special Issue Quantitative Methods for Economics and Finance of the journal Mathematics This Special Issue reflects on the latest developments in different fields of economics and finance where mathematics plays a significant role The book gathers 19 papers on topics such as volatility clusters and volatility dynamic forecasting stocks indexes cryptocurrencies and commodities trade agreements the relationship between volume and price trading strategies efficiency regression utility models fraud prediction or intertemporal choice

Advances in Quantitative Methods for Economics and Business Salvador Cruz Rambaud, Juan Evangelista Trinidad Segovia, Catalina B. García-García, 2025-09-26 Bringing together a distinguished group of contributors this volume in honor of Jos García Pérez provides a comprehensive overview of the latest advances in quantitative methods for business and economics including distribution theory econometrics behavioral finance financial networks and economic applications as well as parallels exploring Jos García Pérez's research interests Contemporary challenges in this field include evaluating the robustness of structural econometric analyses under collinearity identifying the connections between long term memory and financial performance and treating multicollinearity in the Nelson Siegel model To tackle these problems this book offers a wealth of innovative approaches methodologies and theoretical frameworks For example it presents new probability distributions explores the application of partial least structural equation modeling in economics discusses the theoretical practical approach to portfolio management in sustainable finance and Environmental Social and Governance and reviews the application and usefulness of state of the art machine learning and artificial intelligence in applied finance The book serves as a valuable resource for researchers and practitioners in econometrics finance and economics providing a comprehensive yet accessible resource for further exploration and study In honoring Jos García Pérez it not only pays tribute to a distinguished scholar but will also act as a catalyst for continued exploration and advancement in the dynamic and evolving landscape of quantitative methods for economics and business

Structural Changes and their Econometric Modeling Vladik Kreinovich, Songsak Sriboonchitta, 2018-11-24 This book focuses on structural changes and economic

modeling It presents papers describing how to model structural changes as well as those introducing improvements to the existing before structural changes models making it easier to later on combine these models with techniques describing structural changes The book also includes related theoretical developments and practical applications of the resulting techniques to economic problems Most traditional mathematical models of economic processes describe how the corresponding quantities change with time However in addition to such relatively smooth numerical changes economical phenomena often undergo more drastic structural change Describing such structural changes is not easy but it is vital if we want to have a more adequate description of economic phenomena and thus more accurate and more reliable predictions and a better understanding on how best to influence the economic situation Stochastic Analysis, Filtering, and Stochastic Optimization George Yin, Thaleia Zariphopoulou, 2022-04-22 This volume is a collection of research works to honor the late Professor Mark H A Davis whose pioneering work in the areas of Stochastic Processes Filtering and Stochastic Optimization spans more than five decades Invited authors include his dissertation advisor past collaborators colleagues mentees and graduate students of Professor Davis as well as scholars who have worked in the above areas Their contributions may expand upon topics in piecewise deterministic processes pathwise stochastic calculus martingale methods in stochastic optimization filtering mean field games time inconsistency as well as impulse singular risk sensitive and robust stochastic control A Machine Learning based Pairs Trading Investment Strategy Simão Moraes Sarmento, Nuno Horta, 2020-07-13 This book investigates the application of promising machine learning techniques to address two problems i how to find profitable pairs while constraining the search space and ii how to avoid long decline periods due to prolonged divergent pairs It also proposes the integration of an unsupervised learning algorithm OPTICS to handle problem i and demonstrates that the suggested technique can outperform the common pairs search methods achieving an average portfolio Sharpe ratio of 3.79 in comparison to 3.58 and 2.59 obtained using standard approaches For problem ii the authors introduce a forecasting based trading model capable of reducing the periods of portfolio decline by 75% However this comes at the expense of decreasing overall profitability The authors also test the proposed strategy using an ARMA model an LSTM and an LSTM encoder decoder **Optimal Mean Reversion Trading: Mathematical Analysis And Practical Applications** Tim Siu-tang Leung, Xin Li, 2015-11-26 Optimal Mean Reversion Trading Mathematical Analysis and Practical Applications provides a systematic study to the practical problem of optimal trading in the presence of mean reverting price dynamics It is self contained and organized in its presentation and provides rigorous mathematical analysis as well as computational methods for trading ETFs options futures on commodities or volatility indices and credit risk derivatives This book offers a unique financial engineering approach that combines novel analytical methodologies and applications to a wide array of real world examples It extracts the mathematical problems from various trading approaches and scenarios but also addresses the practical aspects of trading problems such as model estimation risk premium risk constraints and transaction costs The

explanations in the book are detailed enough to capture the interest of the curious student or researcher and complete enough to give the necessary background material for further exploration into the subject and related literature This book will be a useful tool for anyone interested in financial engineering particularly algorithmic trading and commodity trading and would like to understand the mathematically optimal strategies in different market environments Proceedings of the International Workshop on Finance 2011. Doshisha University, Kyoto, Japan. 3-4 August 2011 Akihiko Takahashi,2012-05-21 This book is the Proceedings of the International Workshop on Finance 2011 held in Kyoto in the summer of 2011 with the aim of exchanging new ideas in financial engineering among researchers from various countries from both academia and industry The workshop was held as a successor to the Daiwa International Workshop 2004 OCo2008 and the KIER TMU International Workshop 2009 OCo2010 This workshop was organized by the Center for Advanced Research in Finance CARF Graduate School of Economics the University of Tokyo and Graduate School of Social Sciences Tokyo Metropolitan University OCo and co organized by Life Risk Research Center Doshisha University The workshop serves as a bridge between academic researchers and practitioners This book contains about fifteen papers all refereed representing the presentations at the workshop The papers address state of the art techniques in financial engineering **Recent Advances In Financial Engineering 2011 - Proceedings Of The International Workshop On Finance 2011** Akihiko Takahashi,Yukio Muromachi,Hidetaka Nakaoka,2012-05-21 This book is the Proceedings of the International Workshop on Finance 2011 held in Kyoto in the summer of 2011 with the aim of exchanging new ideas in financial engineering among researchers from various countries from both academia and industry The workshop was held as a successor to the Daiwa International Workshop 2004 2008 and the KIER TMU International Workshop 2009 2010 This workshop was organized by the Center for Advanced Research in Finance CARF Graduate School of Economics the University of Tokyo and Graduate School of Social Sciences Tokyo Metropolitan University and co organized by Life Risk Research Center Doshisha University The workshop serves as a bridge between academic researchers and practitioners This book contains about fifteen papers all refereed representing the presentations at the workshop The papers address state of the art techniques in financial engineering **Advanced Mathematical Methods for Finance** Julia Di Nunno,Bernt Øksendal,2011-03-29 This book presents innovations in the mathematical foundations of financial analysis and numerical methods for finance and applications to the modeling of risk The topics selected include measures of risk credit contagion insider trading information in finance stochastic control and its applications to portfolio choices and liquidation models of liquidity pricing and hedging The models presented are based on the use of Brownian motion Levy processes and jump diffusions Moreover fractional Brownian motion and ambit processes are also introduced at various levels The chosen blend of topics gives an overview of the frontiers of mathematics for finance New results new methods and new models are all introduced in different forms according to the subject Additionally the existing literature on the topic is reviewed The diversity of the topics makes the book suitable for

graduate students researchers and practitioners in the areas of financial modeling and quantitative finance The chapters will also be of interest to experts in the financial market interested in new methods and products This volume presents the results of the European ESF research networking program Advanced Mathematical Methods for Finance **Modeling**

Dependence in Econometrics Van-Nam Huynh,Vladik Kreinovich,Songsak Sriboonchitta,2013-11-18 In economics many quantities are related to each other Such economic relations are often much more complex than relations in science and engineering where some quantities are independence and the relation between others can be well approximated by linear functions As a result of this complexity when we apply traditional statistical techniques developed for science and engineering to process economic data the inadequate treatment of dependence leads to misleading models and erroneous predictions Some economists even blamed such inadequate treatment of dependence for the 2008 financial crisis To make economic models more adequate we need more accurate techniques for describing dependence Such techniques are currently being developed This book contains description of state of the art techniques for modeling dependence and economic applications of these techniques Most of these research developments are centered around the notion of a copula a general way of describing dependence in probability theory and statistics To be even more adequate many papers go beyond traditional copula techniques and take into account e g the dynamical changing character of the dependence in economics

Applied Computer Sciences in Engineering Juan Carlos Figueroa-García,German Hernández,Diego Fernando Suero Pérez,Elvis Eduardo Gaona García,2024-10-17 The two volume set CCIS 2222 2223 constitutes the proceedings of the 11th Workshop on Engineering Applications WEA 2024 which took place in Barranquilla Colombia during October 23 25 2024 The 42 full papers presented here were carefully reviewed and selected from 97 submissions The papers are organized in the following topical sections Part I Artificial Intelligence Part II Optimization Simulation Applications Computational Finance Argimiro Arratia,2014-05-08 The book covers a wide range of topics yet essential in Computational Finance CF understood as a mix of Finance Computational Statistics and Mathematics of Finance In that regard it is unique in its kind for it touches upon the basic principles of all three main components of CF with hands on examples for programming models in R Thus the first chapter gives an introduction to the Principles of Corporate Finance the markets of stock and options valuation and economic theory framed within Computation and Information Theory e g the famous Efficient Market Hypothesis is stated in terms of computational complexity a new perspective Chapters 2 and 3 give the necessary tools of Statistics for analyzing financial time series it also goes in depth into the concepts of correlation causality and clustering Chapters 4 and 5 review the most important discrete and continuous models for financial time series Each model is provided with an example program in R Chapter 6 covers the essentials of Technical Analysis TA and Fundamental Analysis This chapter is suitable for people outside academics and into the world of financial investments as a primer in the methods of charting and analysis of value for stocks as it is done in the financial industry Moreover a mathematical foundation to the seemly ad hoc methods of TA is given

and this is new in a presentation of TA Chapter 7 reviews the most important heuristics for optimization simulated annealing genetic programming and ant colonies swarm intelligence which is material to feed the computer savvy readers Chapter 8 gives the basic principles of portfolio management through the mean variance model and optimization under different constraints which is a topic of current research in computation due to its complexity One important aspect of this chapter is that it teaches how to use the powerful tools for portfolio analysis from the RMetrics R package Chapter 9 is a natural continuation of chapter 8 into the new area of research of online portfolio selection The basic model of the universal portfolio of Cover and approximate methods to compute are also described

Proceedings of the 2022 2nd International Conference on Business Administration and Data Science (BADs 2022) Víctor Fernández-Viagas, Bijay Kumar Kandel, Changiz Valmohammadi, Hrushikesh Mallick, 2023-01-20 This is an open access book The 2nd International Conference on Business Administration and Data Science BADs 2022 is hosted by Kashi University and organized by the College of Economics and Management of Kashi University The 2nd International Conference on Business Administration and Data Science BADs 2022 is one of the series of activities for the 60th anniversary of the founding of Kashgar University In the current situation of rapid economic development the competition in the market is increasingly fierce The drawbacks of traditional enterprise management and the backward management concept have seriously hindered the normal development of enterprises In order to improve their competitive advantages and market share enterprises must optimize their management methods and build a modern business administration system In this situation enterprises can only promote their development process by improving their business management mode and formulating scientific business management policies

Understanding Arbitrage Randall Billingsley, 2005-10-05 Arbitrage is central both to corporate risk management and to a wide range of investment strategies Thousands of financial executives managers and sophisticated investors want to understand it but most books on arbitrage are far too abstract and technical to serve their needs Billingsley addresses this untapped market with the first accessible and realistic guide to the concepts and modern practice of arbitrage It relies on intuition not advanced math readers will find basic algebra sufficient to understand it and begin using its methods The author starts with a lucid introduction to the fundamentals of arbitrage including the Laws of One Price and One Expected Return Using realistic examples he shows how to identify assets and portfolios ripe for exploitation mispriced commodities securities misvalued currencies interest rate differences and more You ll learn how to establish relative prices between underlying stock puts calls and riskless securities like Treasury bills and how these techniques support derivatives pricing and hedging Billingsley then illuminates options pricing the heart of modern risk management and financial engineering He concludes with an accessible introduction to the Nobel winning Modigliani Miller theory and its use in analyzing capital structure

Handbook of Hedge Funds François-Serge Lhabitant, 2011-03-23 A comprehensive guide to the burgeoning hedge fund industry Intended as a comprehensive reference for investors and fund and portfolio managers Handbook of Hedge Funds

combines new material with updated information from Francois Serge L habitant s two other successful hedge fund books This book features up to date regulatory and historical information new case studies and trade examples detailed analyses of investment strategies discussions of hedge fund indices and databases and tips on portfolio construction Francois Serge L habitant Geneva Switzerland is the Head of Investment Research at Kedge Capital He is Professor of Finance at the University of Lausanne and at EDHEC Business School as well as the author of five books including Hedge Funds Quantitative Insights 0 470 85667 X and Hedge Funds Myths Limits 0 470 84477 9 both from Wiley

Applications and Optimizations of Kalman Filter and Their Variants Asadullah Khalid, Arif Sarwat, Hugo Riggs, 2024-07-17 Applications and Optimizations of Kalman Filter and Their Variants is a comprehensive exploration of Kalman filters diverse applications and refined optimizations across various domains It meticulously examines their role in microgrid management offering adaptive estimation techniques for effective control strategies The book then delves into distribution system state estimation showcasing an innovative stochastic programming model using extended Kalman filters for reliable monitoring and control In the realm of financial modeling readers gain insights into how Kalman filters enhance trading strategies like pairs trading and partial co integration bridging finance and analytics Moreover the book discusses Kalman filter optimization addressing challenges in object tracking and error reduction with techniques like dynamic stochastic approximation algorithms and M robust estimates With practical examples and interdisciplinary approaches this book serves as a valuable resource for researchers practitioners and students looking to harness Kalman filter techniques for enhanced efficiency and accuracy across diverse fields

International Cross-Listing of Chinese Firms Liu, Lixian, 2014-01-31 While many nations are still struggling from the global financial crisis and regaining their financial security investors are considering alternative options for investing their money and the secure financial sector is China appears as a viable option International Cross Listing of Chinese Firms examines the successful techniques and strategies that Chinese companies are using within their financial practices It highlights the foreign based multinational enterprise theories related to the major international stock markets By providing the latest theories and research this book will be beneficial for business practitioners researchers and managers interested in the relationship between cross listing and firm valuation of Chinese firms

Market Risk Management for Hedge Funds Francois Duc, Yann Schorderet, 2010-04-01 This book provides a cutting edge introduction to market risk management for Hedge Funds Hedge Funds of Funds and the numerous new indices and clones launching coming to market on a near daily basis It will present the fundamentals of quantitative risk measures by analysing the range of Value at Risk VaR models used today addressing the robustness of each model and looking at new risk measures available to more effectively manage risk in a hedge fund portfolio The book begins by analysing the current state of the hedge fund industry at the ongoing institutionalisation of the market and at its latest developments It then moves on to examine the range of risks risk controls and risk management strategies currently employed by practitioners and focuses on particular risks embedded

in the more classic investment strategies such as Long Short Convertible Arbitrage Fixed Income Arbitrage Short selling and risk arbitrage Addressed along side these are other risks common to hedge funds including liquidity risk leverage risk and counterparty risk The book then moves on to examine more closely two models which provide the underpinning for market risk management in investment today Style Value at Risk and Implicit Value at Risk As well as full quantitative analysis and backtesting of each methodology the authors go on to propose a new style model for style and implicit VaR complete with analysis real life examples and backtesting The authors then go on to discuss annualisation issues and risk return before moving on to propose a new model based on the authors own Best Choice Implicit VaR approach incorporating quantitative analysis market results and backtesting and also its potential for new hedge fund clone products This book is the only guide to VaR for Hedge Funds and will prove to be an invaluable resource as we embark into an era of increasing volatility and uncertainty

Market Risk Analysis, Boxset Carol Alexander, 2009-02-24 Market Risk Analysis is the most comprehensive rigorous and detailed resource available on market risk analysis Written as a series of four interlinked volumes each title is self contained although numerous cross references to other volumes enable readers to obtain further background knowledge and information about financial applications Volume I Quantitative Methods in Finance covers the essential mathematical and financial background for subsequent volumes Although many readers will already be familiar with this material few competing texts contain such a complete and pedagogical exposition of all the basic quantitative concepts required for market risk analysis There are six comprehensive chapters covering all the calculus linear algebra probability and statistics numerical methods and portfolio mathematics that are necessary for market risk analysis This is an ideal background text for a Masters course in finance Volume II Practical Financial Econometrics provides a detailed understanding of financial econometrics with applications to asset pricing and fund management as well as to market risk analysis It covers equity factor models including a detailed analysis of the Barra model and tracking error principal component analysis volatility and correlation GARCH cointegration copulas Markov switching quantile regression discrete choice models non linear regression forecasting and model evaluation Volume III Pricing Hedging and Trading Financial Instruments has five very long chapters on the pricing hedging and trading of bonds and swaps futures and forwards options and volatility as well detailed descriptions of mapping portfolios of these financial instruments to their risk factors There are numerous examples all coded in interactive Excel spreadsheets including many pricing formulae for exotic options but excluding the calibration of stochastic volatility models for which Matlab code is provided The chapters on options and volatility together constitute 50% of the book the slightly longer chapter on volatility concentrating on the dynamic properties the two volatility surfaces the implied and the local volatility surfaces that accompany an option pricing model with particular reference to hedging Volume IV Value at Risk Models builds on the three previous volumes to provide by far the most comprehensive and detailed treatment of market VaR models that is currently available in any textbook The exposition starts at an elementary level but as

in all the other volumes the pedagogical approach accompanied by numerous interactive Excel spreadsheets allows readers to experience the application of parametric linear historical simulation and Monte Carlo VaR models to increasingly complex portfolios Starting with simple positions after a few chapters we apply value at risk models to interest rate sensitive portfolios large international securities portfolios commodity futures path dependent options and much else This rigorous treatment includes many new results and applications to regulatory and economic capital allocation measurement of VaR model risk and stress testing

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