

	(1)	(2)	(3)
	r_m	r_m	r_m
Constant mean Eq	0.004 (0.003)	0.006 (0.007)	0.004 (0.003)
ARCH	0.057^{***} (0.003)	0.088^{***} (0.010)	0.053^{***} (0.003)
GARCH	0.939 ^{***} (0.003)	0.891 ^{***} (0.012)	0.943 ^{***} (0.003)
Constant	0.001 ^{***} (0.000)	0.006 ^{***} (0.001)	0.001 ^{***} (0.000)
N	18,484	3603	14,881

The ARCH(1) and GARCH (1) with t-distribution are assumed. Again, the standard errors are reported in parentheses

* p < 0.1

** p < 0.05

*** p < 0.01. (1), (2), (3) is the regression using respectively full sample, only observations before 24/02/2022, only observations after 24/02/2022

Garch Model Estimation Using Estimated Quadratic Variation

**Jiuping Xu, Fulya Altiparmak, Mohamed
Hag Ali Hassan, Fausto Pedro García
Márquez, Asaf Hajiye**

Garch Model Estimation Using Estimated Quadratic Variation:

Modelling and forecasting stock return volatility and the term structure of interest rates Michiel de Pooter, 2007

This dissertation consists of a collection of studies on two areas in quantitative finance asset return volatility and the term structure of interest rates The first part of this dissertation offers contributions to the literature on how to test for sudden changes in unconditional volatility on modelling realized volatility and on the choice of optimal sampling frequencies for intraday returns The emphasis in the second part of this dissertation is on the term structure of interest rates *Statistical and Algorithm Aspects of Optimal Portfolios* Howard Howan Stephen Shek, 2011 We address three key aspects of optimal portfolio construction expected return variance covariance modeling and optimization in presence of cardinality constraints On expected return modeling we extend the self excited point process framework to model conditional arrival intensities of bid and ask side market orders of listed stocks The cross excitation of market orders is modeled explicitly such that the ask side market order size and bid side probability weighted order book cumulative volume can affect the ask side order intensity and vice versa Different variations of the framework are estimated by using method of maximum likelihood estimation based on a recursive application of the log likelihood functions derived in this thesis Results indicate that the self excited point process framework is able to capture a significant amount of the underlying trading dynamics of market orders both in sample and out of sample A new framework is introduced Realized GARCH for the joint modeling of returns and realized measures of volatility A key feature is a measurement equation that relates the realized measure to the conditional variance of returns The measurement equation facilitates a simple modeling of the dependence between returns and future volatility Realized GARCH models with a linear or log linear specification have many attractive features They are parsimonious simple to estimate and imply an ARMA structure for the conditional variance and the realized measure An empirical application with DJIA stocks and an exchange traded index fund shows that a simple Realized GARCH structure leads to substantial improvements in the empirical fit over standard GARCH models Finally we describe a novel algorithm to obtain the solution of the optimal portfolio problem with NP hard cardinality constraints The algorithm is based on a local relaxation that exploits the inherent structure of the objective function It solves a sequence of small local quadratic programs by first projecting asset returns onto a reduced metric space followed by clustering in this space to identify sub groups of assets that best accentuate a suitable measure of similarity amongst different assets The algorithm can either be cold started using the centroids of initial clusters or be warm started based on the output of a previous result Empirical result using baskets of up to 3 000 stocks and with different cardinality constraints indicates that the algorithm is able to achieve significant performance gain over a sophisticated branch and cut method One key application of this local relaxation algorithm is in dealing with large scale cardinality constrained portfolio optimization under tight time constraint such as for the purpose of index tracking or index arbitrage at high frequency The Oxford Handbook of Economic Forecasting Michael P.

Clements, David F. Hendry, 2011-06-29 This Handbook provides up to date coverage of both new and well established fields in the sphere of economic forecasting The chapters are written by world experts in their respective fields and provide authoritative yet accessible accounts of the key concepts subject matter and techniques in a number of diverse but related areas It covers the ways in which the availability of ever more plentiful data and computational power have been used in forecasting in terms of the frequency of observations the number of variables and the use of multiple data vintages Greater data availability has been coupled with developments in statistical theory and economic analysis to allow more elaborate and complicated models to be entertained the volume provides explanations and critiques of these developments These include factor models DSGE models restricted vector autoregressions and non linear models as well as models for handling data observed at mixed frequencies high frequency data multiple data vintages methods for forecasting when there are structural breaks and how breaks might be forecast Also covered are areas which are less commonly associated with economic forecasting such as climate change health economics long horizon growth forecasting and political elections Econometric forecasting has important contributions to make in these areas along with how their developments inform the mainstream

Complex Systems in Finance and Econometrics Robert A. Meyers, 2010-11-03 Finance Econometrics and System Dynamics presents an overview of the concepts and tools for analyzing complex systems in a wide range of fields The text integrates complexity with deterministic equations and concepts from real world examples and appeals to a broad audience

Empirical Asset Pricing Wayne Ferson, 2025-09-09 An introduction to the theory and methods of empirical asset pricing integrating classical foundations with recent developments This book offers a comprehensive advanced introduction to asset pricing the study of models for the prices and returns of various securities The focus is empirical emphasizing how the models relate to the data The book offers a uniquely integrated treatment combining classical foundations with more recent developments in the literature and relating some of the material to applications in investment management It covers the theory of empirical asset pricing the main empirical methods and a range of applied topics The book introduces the theory of empirical asset pricing through three main paradigms mean variance analysis stochastic discount factors and beta pricing models It describes empirical methods beginning with the generalized method of moments GMM and viewing other methods as special cases of GMM offers a comprehensive review of fund performance evaluation and presents selected applied topics including a substantial chapter on predictability in asset markets that covers predicting the level of returns volatility and higher moments and predicting cross sectional differences in returns Other chapters cover production based asset pricing long run risk models the Campbell Shiller approximation the debate on covariance versus characteristics and the relation of volatility to the cross section of stock returns An extensive reference section captures the current state of the field The book is intended for use by graduate students in finance and economics it can also serve as a reference for professionals

Analysis of Financial Time Series Ruey S. Tsay, 2005-09-15 Provides statistical tools and techniques needed to

understand today's financial markets The Second Edition of this critically acclaimed text provides a comprehensive and systematic introduction to financial econometric models and their applications in modeling and predicting financial time series data This latest edition continues to emphasize empirical financial data and focuses on real world examples Following this approach readers will master key aspects of financial time series including volatility modeling neural network applications market microstructure and high frequency financial data continuous time models and Ito's Lemma Value at Risk multiple returns analysis financial factor models and econometric modeling via computation intensive methods The author begins with the basic characteristics of financial time series data setting the foundation for the three main topics Analysis and application of univariate financial time series Return series of multiple assets Bayesian inference in finance methods This new edition is a thoroughly revised and updated text including the addition of S-Plus commands and illustrations Exercises have been thoroughly updated and expanded and include the most current data providing readers with more opportunities to put the models and methods into practice Among the new material added to the text readers will find Consistent covariance estimation under heteroscedasticity and serial correlation Alternative approaches to volatility modeling Financial factor models State space models Kalman filtering Estimation of stochastic diffusion models The tools provided in this text aid readers in developing a deeper understanding of financial markets through first-hand experience in working with financial data This is an ideal textbook for MBA students as well as a reference for researchers and professionals in business and finance

Studies in Theoretical and Applied Statistics Nicola Salvati, Cira Perna, Stefano Marchetti, Raymond

Chambers, 2023-02-14 This book includes a wide selection of papers presented at the 50th Scientific Meeting of the Italian Statistical Society SIS2021 held virtually on 21-25 June 2021 It covers a wide variety of subjects ranging from methodological and theoretical contributions to applied works and case studies giving an excellent overview of the interests of the Italian statisticians and their international collaborations Intended for researchers interested in theoretical and empirical issues this volume provides interesting starting points for further research

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Emerging Applications of Differential Equations and Game Theory Alparslan Gök, S?rma Zeynep, Aru?aslan Çinçin,

Duygu, 2019-11-22 Branches of mathematics and advanced mathematical algorithms can help solve daily problems throughout various fields of applied sciences Domains like economics mechanical engineering and multi person decision making benefit from the inclusion of mathematics to maximize utility and cooperation across disciplines There is a need for studies seeking to understand the theories and practice of using differential mathematics to increase efficiency and order in the modern world Emerging Applications of Differential Equations and Game Theory is a collection of innovative research

that examines the recent advancements on interdisciplinary areas of applied mathematics While highlighting topics such as artificial neuron networks stochastic optimization and dynamical systems this publication is ideally designed for engineers cryptologists economists computer scientists business managers mathematicians mechanics academicians researchers and students **Financial, Macro and Micro Econometrics Using R**, 2020-01-20 Financial Macro and Micro Econometrics Using R Volume 42 provides state of the art information on important topics in econometrics including multivariate GARCH stochastic frontiers fractional responses specification testing and model selection exogeneity testing causal analysis and forecasting GMM models asset bubbles and crises corporate investments classification forecasting nonstandard problems cointegration financial market jumps and co jumps among other topics *Econometrics of Financial High-Frequency Data* Nikolaus Hautsch, 2011-10-12 The availability of financial data recorded on high frequency level has inspired a research area which over the last decade emerged to a major area in econometrics and statistics The growing popularity of high frequency econometrics is driven by technological progress in trading systems and an increasing importance of intraday trading liquidity risk optimal order placement as well as high frequency volatility This book provides a state of the art overview on the major approaches in high frequency econometrics including univariate and multivariate autoregressive conditional mean approaches for different types of high frequency variables intensity based approaches for financial point processes and dynamic factor models It discusses implementation details provides insights into properties of high frequency data as well as institutional settings and presents applications to volatility and liquidity estimation order book modelling and market microstructure analysis *Handbook of Computational Finance* Jin-Chuan Duan, Wolfgang Karl Härdle, James E. Gentle, 2011-10-25 Any financial asset that is openly traded has a market price Except for extreme market conditions market price may be more or less than a fair value Fair value is likely to be some complicated function of the current intrinsic value of tangible or intangible assets underlying the claim and our assessment of the characteristics of the underlying assets with respect to the expected rate of growth future dividends volatility and other relevant market factors Some of these factors that affect the price can be measured at the time of a transaction with reasonably high accuracy Most factors however relate to expectations about the future and to subjective issues such as current management corporate policies and market environment that could affect the future financial performance of the underlying assets Models are thus needed to describe the stochastic factors and environment and their implementations inevitably require computational finance tools

Financial Mathematics, Volatility and Covariance Modelling Julien Chevallier, Stéphane Goutte, David Guerreiro, Sophie Saglio, Bilel Sanhaji, 2019-06-28 This book provides an up to date series of advanced chapters on applied financial econometric techniques pertaining the various fields of commodities finance mathematics academics and students seeking convenient access to an unfamiliar area It will also be of great interest established researchers seeking a single repository on the current state of knowledge current debates and relevant literature **Econometric Analysis of Carbon**

Markets Julien Chevallier,2011-09-21 Through analysis of the European Union Emissions Trading Scheme EU ETS and the Clean Development Mechanism CDM this book demonstrates how to use a variety of econometric techniques to analyze the evolving and expanding carbon markets sphere techniques that can be extrapolated to the worldwide marketplace It features stylized facts about carbon markets from an economics perspective as well as covering key aspects of pricing strategies risk and portfolio management

Trends in Data Engineering Methods for Intelligent Systems Jude Hemanth,Tuncay Yigit,Bogdan Patrut,Anastassia Angelopoulou,2021-07-05 This book briefly covers internationally contributed chapters with artificial intelligence and applied mathematics oriented background details Nowadays the world is under attack of intelligent systems covering all fields to make them practical and meaningful for humans In this sense this edited book provides the most recent research on use of engineering capabilities for developing intelligent systems The chapters are a collection from the works presented at the 2nd International Conference on Artificial Intelligence and Applied Mathematics in Engineering held within 09 10 11 October 2020 at the Antalya Manavgat Turkey The target audience of the book covers scientists experts M Sc and Ph D students post docs and anyone interested in intelligent systems and their usage in different problem domains The book is suitable to be used as a reference work in the courses associated with artificial intelligence and applied mathematics

Handbook of Financial Risk Management Ngai Hang Chan,Hoi Ying Wong,2013-06-17 An authoritative handbook on risk management techniques and simulations as applied to financial engineering topics theories and statistical methodologies The Handbook of Financial Risk Management Simulations and Case Studies illustrates the practical implementation of simulation techniques in the banking and financial industries through the use of real world applications Striking a balance between theory and practice the Handbook of Financial Risk Management Simulations and Case Studies demonstrates how simulation algorithms can be used to solve practical problems and showcases how accuracy and efficiency in implementing various simulation methods are indispensable tools in risk management The book provides the reader with an intuitive understanding of financial risk management and deepens insight into those financial products that cannot be priced traditionally The Handbook of Financial Risk Management also features Examples in each chapter derived from consulting projects current research and course instruction Topics such as volatility fixed income derivatives LIBOR Market Models and risk measures Over twenty four recognized simulation models Commentary data sets and computer subroutines available on a chapter by chapter basis As a complete reference for practitioners the book is useful in the fields of finance business applied statistics econometrics and engineering The Handbook of Financial Risk Management is also an excellent text or supplement for graduate and MBA level students in courses on financial risk management and simulation

Forecasting in the Presence of Structural Breaks and Model Uncertainty David E. Rapach,Mark E. Wohar,Hamid Beladi,Kwan Choi,2008-02-29 Forecasting in the presence of structural breaks and model uncertainty are active areas of research with implications for practical problems in forecasting This book addresses forecasting variables from both

Macroeconomics and Finance and considers various methods of dealing with model instability and model uncertainty when forming forecasts **Financial Modeling** Hercules Vladimirov,2007 *Modeling and Pricing in Financial Markets for Weather Derivatives* Fred Espen Benth,Jurate Saltyte Benth,2013 Weather derivatives provide a tool for weather risk management and the markets for these exotic financial products are gradually emerging in size and importance This unique monograph presents a unified approach to the modeling and analysis of such weather derivatives including financial contracts on temperature wind and rain Based on a deep statistical analysis of weather factors sophisticated stochastic processes are introduced modeling the time and space dynamics Applying ideas from the modern theory of mathematical finance weather derivatives are priced and questions of hedging analyzed The treatise contains an in depth analysis of typical weather contracts traded at the Chicago Mercantile Exchange CME including so called CDD and HDD futures The statistical analysis of weather variables are based on a large data set from Lithuania The monograph includes the research done by the authors over the last decade on weather markets Their work has gained considerable attention and has been applied in many contexts Proceedings of the Sixteenth International Conference on Management Science and Engineering Management - Volume 1 Jiuping Xu,Fulya Altiparmak,Mohamed Hag Ali Hassan,Fausto Pedro García Márquez,Asaf Hajiyevev,2022-07-13 This book covers many hot topics including theoretical and practical research in many areas such as dynamic analysis machine learning supply chain management operations management environmental management uncertainty and health and hygiene It showcases advanced management concepts and innovative ideas The 16th International Conference on Management Science and Engineering Management 2022 ICMSEM will be held in Ankara Turkey during August 3 6 2022 ICMSEM has always been committed to promoting innovation management science M S and engineering management EM academic research and development The book provides researchers and practitioners in the field of Management Science and Engineering Management MSEM with the latest cutting edge thinking and research in the field It will appeal to readers interested in these fields especially those looking for new ideas and research directions

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