Non-linear time series models in empirical finance

Philip Hans Franses · Dick van Dijk

Non Linear Time Series Models In Empirical Finance

Jan G. De Gooijer

Non Linear Time Series Models In Empirical Finance:

Non-Linear Time Series Models in Empirical Finance Philip Hans Franses,Dick van Dijk,2000-07-27 Although many of the models commonly used in empirical finance are linear the nature of financial data suggests that non linear models are more appropriate for forecasting and accurately describing returns and volatility The enormous number of non linear time series models appropriate for modeling and forecasting economic time series models makes choosing the best model for a particular application daunting This classroom tested advanced undergraduate and graduate textbook first published in 2000 provides a rigorous treatment of recently developed non linear models including regime switching and artificial neural networks The focus is on the potential applicability for describing and forecasting financial asset returns and their associated volatility The models are analysed in detail and are not treated as black boxes Illustrated using a wide range of financial data drawn from sources including the financial markets of Tokyo London and Frankfurt   Non-linear Time Series Models in Empirical Finance Philip Hans Franses,2000   Non-linear Time Series Models in Empirical Finance Forecasting Philip Hans Franses,Dick van Dijk,2000   Non-linear Time Series Models in Empirical Finance Philip Hans Franses,Dickvan Dijk,2000   Non-Linear Time Series Kamil Feridun Turkman,Manuel González Scotto,Patrícia de Zea Bermudez,2014-09-29 This book offers a useful combination of probabilistic and statistical tools for analyzing nonlinear time series Key features of the book include a study of the extremal behavior of nonlinear time series and a comprehensive list of nonlinear models that address different aspects of nonlinearity Several inferential methods including quasi likelihood methods sequential Markov Chain Monte Carlo Methods and particle filters are also included so as to provide an overall view of the available tools for parameter estimation for nonlinear models A chapter on integer time series models based on several thinning operations which brings together all recent advances made in this area is also included Readers should have attended a prior course on linear time series and a good grasp of simulation based inferential methods is recommended This book offers a valuable resource for second year graduate students and researchers in statistics and other scientific areas who need a basic understanding of nonlinear time series   GARCH Models Christian Francq,Jean-Michel Zakoian,2019-03-19 Provides a comprehensive and updated study of GARCH models and their applications in finance covering new developments in the discipline This book provides a comprehensive and systematic approach to understanding GARCH time series models and their applications whilst presenting the most advanced results concerning the theory and practical aspects of GARCH The probability structure of standard GARCH models is studied in detail as well as statistical inference such as identification estimation and tests The book also provides new coverage of several extensions such as multivariate models looks at financial applications and explores the very validation of the models used GARCH Models Structure Statistical Inference and Financial Applications 2nd Edition features a new chapter on Parameter Driven Volatility Models which covers Stochastic Volatility Models and Markov Switching Volatility Models A second new chapter titled Alternative Models for the Conditional Variance

contains a section on Stochastic Recurrence Equations and additional material on EGARCH Log GARCH GAS MIDAS and intraday volatility models among others The book is also updated with a more complete discussion of multivariate GARCH a new section on Cholesky GARCH a larger emphasis on the inference of multivariate GARCH models a new set of corrected problems available online and an up to date list of references Features up to date coverage of the current research in the probability statistics and econometric theory of GARCH models Covers significant developments in the field especially in multivariate models Contains completely renewed chapters with new topics and results Handles both theoretical and applied aspects Applies to researchers in different fields time series econometrics finance Includes numerous illustrations and applications to real financial series Presents a large collection of exercises with corrections Supplemented by a supporting website featuring R codes Fortran programs data sets and Problems with corrections GARCH Models 2nd Edition is an authoritative state of the art reference that is ideal for graduate students researchers and practitioners in business and finance seeking to broaden their skills of understanding of econometric time series models **Handbook of Research Methods and Applications in Empirical Macroeconomics** Nigar Hashimzade,Michael A. Thornton,2013-01-01 This comprehensive Handbook presents the current state of art in the theory and methodology of macroeconomic data analysis It is intended as a reference for graduate students and researchers interested in exploring new methodologies but can also be employed as a graduate text The Handbook concentrates on the most important issues models and techniques for research in macroeconomics and highlights the core methodologies and their empirical application in an accessible manner Each chapter is largely self contained whilst the comprehensive introduction provides an overview of the key statistical concepts and methods All of the chapters include the essential references for each topic and provide a sound guide for further reading Topics covered include unit roots non linearities and structural breaks time aggregation forecasting the Kalman filter generalised method of moments maximum likelihood and Bayesian estimation vector autoregressive dynamic stochastic general equilibrium and dynamic panel models Presenting the most important models and techniques for empirical research this Handbook will appeal to students researchers and academics working in empirical macro and econometrics **Essays in Nonlinear Time Series Econometrics** Niels Haldrup,Mika Meitz,Pentti Saikkonen,2014-06-26 This edited collection concerns nonlinear economic relations that involve time It is divided into four broad themes that all reflect the work and methodology of Professor Timo Ter svirta one of the leading scholars in the field of nonlinear time series econometrics The themes are Testing for linearity and functional form specification testing and estimation of nonlinear time series models in the form of smooth transition models model selection and econometric methodology and finally applications within the area of financial econometrics All these research fields include contributions that represent state of the art in econometrics such as testing for neglected nonlinearity in neural network models time varying GARCH and smooth transition models STAR models and common factors in volatility modeling semi automatic general to specific model selection for nonlinear dynamic

models high dimensional data analysis for parametric and semi parametric regression models with dependent data commodity price modeling financial analysts earnings forecasts based on asymmetric loss function local Gaussian correlation and dependence for asymmetric return dependence and the use of bootstrap aggregation to improve forecast accuracy Each chapter represents original scholarly work and reflects the intellectual impact that Timo Ter svirta has had and will continue to have on the profession **Modeling, Control and Drug Development for COVID-19 Outbreak Prevention** Ahmad Taher Azar,Aboul Ella Hassanien,2021-11-01 This book is well structured book which consists of 31 full chapters The book chapters deal with the recent research problems in the areas of modeling control and drug development and it presents various techniques of COVID 19 outbreak prevention modeling The book also concentrates on computational simulations that may help speed up the development of drugs to counter the novel coronavirus responsible for COVID 19 This is an open access book **Theoretical and Applied Mathematics in International Business** Christiansen, Bryan,Shuwaikh, Fatima,2019-07-05 In the past practical applications motivated the development of mathematical theories which then became the subject of study in pure mathematics where abstract concepts are studied for their own sake The activity of applied mathematics is thus intimately connected with research in pure mathematics which is also referred to as theoretical mathematics Theoretical and Applied Mathematics in International Business is an essential research publication that explores the importance and implications of applied and theoretical mathematics within international business including areas such as finance general management sales and marketing and supply chain management Highlighting topics such as data mining global economics and general management this publication is ideal for scholars specialists managers corporate professionals researchers and academicians **Elements of Nonlinear Time Series Analysis and Forecasting** Jan G. De Gooijer,2017-03-30 This book provides an overview of the current state of the art of nonlinear time series analysis richly illustrated with examples pseudocode algorithms and real world applications Avoiding a theorem proof format it shows concrete applications on a variety of empirical time series The book can be used in graduate courses in nonlinear time series and at the same time also includes interesting material for more advanced readers Though it is largely self contained readers require an understanding of basic linear time series concepts Markov chains and Monte Carlo simulation methods The book covers time domain and frequency domain methods for the analysis of both univariate and multivariate vector time series It makes a clear distinction between parametric models on the one hand and semi and nonparametric models methods on the other This offers the reader the option of concentrating exclusively on one of these nonlinear time series analysis methods To make the book as user friendly as possible major supporting concepts and specialized tables are appended at the end of every chapter In addition each chapter concludes with a set of key terms and concepts as well as a summary of the main findings Lastly the book offers numerous theoretical and empirical exercises with answers provided by the author in an extensive solutions manual Nonlinearity, Chaos, and Complexity Cristoforo Sergio Bertuglia,Franco Vaio,2005 Covering a broad

range of topics and adopting a detailed philosophical approach to the subject this text provides a comprehensive survey of the modelling of chaotic dynamics and complexity in the natural and social sciences *Green Energy and Efficiency* Alberto Ansuategi,Juan Delgado,Ibon Galarraga,2014-11-05 Addressing the major issues associated with green energy and energy efficiency this book examines the economics of energy from the theoretical as well as applied perspectives It makes a valuable contribution to existing discussion around environment and climate change issues and provides an analysis of the socioeconomic and policy oriented aspects of this topic Each chapter is self contained and tackles the fundamental issues and latest developments of a particular sub topic Combining rigour and accessibility this book allows non specialized readers to understand the complexity of the topic and to likewise access the most relevant and up to date literature It simultaneously enables more specialized readers to broaden their understanding of complex energy topics and it provides a comprehensive overview of the cutting edge developments of the issues covered by the book This book covers important themes including regulation for green energy the promotion of green energy and efficiency the challenges and options of renewable energy and efficiency in economic sectors It is intended for researchers and postgraduates with an interest in energy climate change and environmental economics and also policymakers and energy companies *International Bibliography of Economics* Compiled by the British Library of Political and Economic Science,2001-11-22 IBSS is the essential tool for librarians university departments research institutions and any public or private institution whose work requires access to up to date and comprehensive knowledge of the social sciences **Asset Price Dynamics, Volatility, and Prediction** Stephen J. Taylor,2011-02-11 This book shows how current and recent market prices convey information about the probability distributions that govern future prices Moving beyond purely theoretical models Stephen Taylor applies methods supported by empirical research of equity and foreign exchange markets to show how daily and more frequent asset prices and the prices of option contracts can be used to construct and assess predictions about future prices their volatility and their probability distributions Stephen Taylor provides a comprehensive introduction to the dynamic behavior of asset prices relying on finance theory and statistical evidence He uses stochastic processes to define mathematical models for price dynamics but with less mathematics than in alternative texts The key topics covered include random walk tests trading rules ARCH models stochastic volatility models high frequency datasets and the information that option prices imply about volatility and distributions Asset Price Dynamics Volatility and Prediction is ideal for students of economics finance and mathematics who are studying financial econometrics and will enable researchers to identify and apply appropriate models and methods It will likewise be a valuable resource for quantitative analysts fund managers risk managers and investors who seek realistic expectations about future asset prices and the risks to which they are exposed <u>Economic Forecasting</u> Graham Elliott,Allan Timmermann,2016-04-05 A comprehensive and integrated approach to economic forecasting problems Economic forecasting involves choosing simple yet robust models to best approximate highly complex and evolving data

generating processes This poses unique challenges for researchers in a host of practical forecasting situations from forecasting budget deficits and assessing financial risk to predicting inflation and stock market returns Economic Forecasting presents a comprehensive unified approach to assessing the costs and benefits of different methods currently available to forecasters This text approaches forecasting problems from the perspective of decision theory and estimation and demonstrates the profound implications of this approach for how we understand variable selection estimation and combination methods for forecasting models and how we evaluate the resulting forecasts Both Bayesian and non Bayesian methods are covered in depth as are a range of cutting edge techniques for producing point interval and density forecasts The book features detailed presentations and empirical examples of a range of forecasting methods and shows how to generate forecasts in the presence of large dimensional sets of predictor variables The authors pay special attention to how estimation error model uncertainty and model instability affect forecasting performance Presents a comprehensive and integrated approach to assessing the strengths and weaknesses of different forecasting methods Approaches forecasting from a decision theoretic and estimation perspective Covers Bayesian modeling including methods for generating density forecasts Discusses model selection methods as well as forecast combinations Covers a large range of nonlinear prediction models including regime switching models threshold autoregressions and models with time varying volatility Features numerous empirical examples Examines the latest advances in forecast evaluation Essential for practitioners and students alike   *Management of Foreign Exchange Risk* Y. C. Lum,Sardar M. N. Islam,2020-09-02 This book provides a technical and specialised discussion of contemporary and emerging issues in foreign exchange and financial markets by addressing the issues of risk management and theory and hypothesis development which have general implications for finance theory and foreign exchange market management It offers an in depth comprehensive analysis of the issues concerning the volatility of exchange rates The book has three main objectives First it applies the integrated study of exchange rate volatility in terms of depth and breadth Second it applies the integrated study of exchange rate volatility in Malaysia as a case study of a developing country Malaysia had imposed capital control measures in the past and has now liberalised its exchange rate market and will continue to liberalise it further in the long run Hence the need to understand exchange rate volatility measurement and management will be even more important in the future Third the book highlights new conditional volatility models for a developing country such as Malaysia and develops advanced econometric models which have produced results for sound risk management strategies and for achieving risk management in the financial market and the economy Additionally the authors recommend risk management themes which may be of relevance to other developing countries This work can be used as a reference book by fund managers financial market analysts researchers academics practitioners policy makers and postgraduate students in the areas of finance accounting business and financial economics It can also be a supplementary text for Ph D and Masters students in these areas   <u>Nonlinear Time Series Analysis of Business Cycles</u> C.

Milas,P. A. Rothman,Dick van Dijk,David E. Wildasin,2006-02-08 This volume of Contributions to Economic Analysis addresses a number of important questions in the field of business cycles including How should business cycles be dated and measured What is the response of output and employment to oil price and monetary shocks And is the business cycle asymmetric and does it matter   Handbook of Probabilistic Models Pijush Samui,Dieu Tien Bui,Subrata Chakraborty,Ravinesh Deo,2019-10-05 Handbook of Probabilistic Models carefully examines the application of advanced probabilistic models in conventional engineering fields In this comprehensive handbook practitioners researchers and scientists will find detailed explanations of technical concepts applications of the proposed methods and the respective scientific approaches needed to solve the problem This book provides an interdisciplinary approach that creates advanced probabilistic models for engineering fields ranging from conventional fields of mechanical engineering and civil engineering to electronics electrical earth sciences climate agriculture water resource mathematical sciences and computer sciences Specific topics covered include minimax probability machine regression stochastic finite element method relevance vector machine logistic regression Monte Carlo simulations random matrix Gaussian process regression Kalman filter stochastic optimization maximum likelihood Bayesian inference Bayesian update kriging copula statistical models and more Explains the application of advanced probabilistic models encompassing multidisciplinary research Applies probabilistic modeling to emerging areas in engineering Provides an interdisciplinary approach to probabilistic models and their applications thus solving a wide range of practical problems   **Economics: Complex Windows** Massimo Salzano,Alan P. Kirman,2006-01-17 In some ways the e ect of achieving understanding is to reverse completely our initial attitude of mind For everyone starts as we have said by being perplexed by some fact or other for instance the fact that the diagonal of a square is incommensurable with the side Anyone who has not yet seen why the side and the diagonal have no common unit regards this as quite extra dinary But one ends up in the opposite frame of mind for nothing would so much abbergast a mathematician as if the diagonal and side of a square were to become commensurable Aristotele This is the rst volume of a new series entitled New Economic Windows Each volume in the series will we hope provide pointers towards a better understanding of the nature of economic phenomena and help to reverse our initial state of mind as economists As H Simon observed Economics must be considered a hard in the sense of di cult rather than precise science As he cogently argued the problems dealt with are so complex they cannot simply be reduced to analytically solvable models or decomposed into sepa 1 rate sub processes In this he was following on from Einstein who many years earlier when asked why he had not turned his attention to economics said that he found it too di cult a subject to handle scienti cally

This book delves into Non Linear Time Series Models In Empirical Finance. Non Linear Time Series Models In Empirical Finance is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Non Linear Time Series Models In Empirical Finance, encompassing both the fundamentals and more intricate discussions.

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   - Chapter 4: Non Linear Time Series Models In Empirical Finance in Specific Contexts
   - Chapter 5: Conclusion

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6. In chapter 5, this book will draw a conclusion about Non Linear Time Series Models In Empirical Finance. This chapter will summarize the key points that have been discussed throughout the book.
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