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Non-Linear Time Series Models in Empirical Finance

In the issue 's first paper, " A nonlinear ... a hidden Markov regime-switching feature between 2001 and 2010, assuming an asymmetric distribution of monthly losses. A high-level regime is marked by ...

Volume 12, Number 1 (March 2017)

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Some in the financial media have taken to the view ... In our opinion, it is difficult for investors to properly prepare for the non-linear public interest and public support for space-related ...

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The objective is that participants gain a thorough understanding of the theory underlying time-series econometrics, which is the basis for any empirical time-series analysis of financial/economic ...

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What kind of compliance and regulatory frameworks you're driving, so that the financial services ... you like them to be non-linear. The shift as we move to cloud was by switching pricing models ...

Splunk Inc.'s (SPLK) CEO Doug Merritt Presents at BofA Securities 2021 Global Technology Conference (Transcript)

They provide a method for computing the premium using two approaches: an analytic closed-form solution based on the Black – Scholes framework, and a numerical simulation using a Markov-switching model .

Volume 9, Number 3 (September 2020)

Topics include stochastic processes, Markov ... nonlinear regression, Gauss-Newton methods, maximum likelihood estimation, parameter estimation, quasi-Newton methods, Monte Carlo integration, and ...

COR Electives

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rho ρ : Estimates a simple autoregressive model with seasonality, forcing a unit root if the estimates are close to one and hence switching to a model in first differences with dampened mean. THIMA: A ...

THE VALUE OF ROBUST STATISTICAL FORECASTS IN THE COVID-19 PANDEMIC

In what ways has your career path since Brandeis been unexpected/nonlinear? How did your Brandeis experience ... I spent the next two years taking a variety of courses (heavy on economics) that helped ...

You Majored in What?!

Recently, I've begun working with methods for fitting nonlinear dynamic models to time series data ... of stable and related distributions in actuarial science, economics, financial mathematics, as ...

Statistics & Probability

Markov chains and related topics ... Also studies voltage stability and non-linear effects. Advanced topics of circuits for electrical energy processing. Covers switching converter principles for ...

Control Systems—Graduate Certificate

Fees & Financial Assistance Library University Computer Support Services Academic Calendar Campuses Research & Professional Development Forms International students Faculty & Staff Resources Personnel ...

This book proposes new methods to value equity and model the Markowitz efficient frontier using Markov switching models and provide new evidence and solutions to capture the persistence observed in stock

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returns across developed and emerging markets.

State-space models as an important mathematical tool has been widely used in many different fields. This edited collection explores recent theoretical developments of the models and their applications in economics and finance. The book includes nonlinear and non-Gaussian time series models, regime-switching and hidden Markov models, continuous- or discrete-time state processes, and models of equally-spaced or irregularly-spaced (discrete or continuous) observations. The contributed chapters are divided into four parts. The first part is on Particle Filtering and Parameter Learning in Nonlinear State-Space Models. The second part focuses on the application of Linear State-Space Models in Macroeconomics and Finance. The third part deals with Hidden Markov Models, Regime Switching and Mathematical Finance and the fourth part is on Nonlinear State-Space Models for High Frequency Financial Data. The book will appeal to graduate students and researchers studying state-space modeling in economics, statistics, and mathematics, as well as to finance professionals.

The field of financial econometrics has exploded over the last decade This book represents an integration of theory, methods, and examples using the S-PLUS statistical modeling language and the S+FinMetrics module to facilitate the practice of financial econometrics. This is the first book to show the power of S-PLUS for the analysis of time series data. It is written for researchers and practitioners in the finance industry, academic researchers in economics and finance, and advanced MBA and graduate students in economics and finance. Readers are assumed to have a basic knowledge of S-PLUS and a solid grounding in basic statistics and time series concepts. This Second Edition is updated to cover S+FinMetrics 2.0 and includes new chapters on copulas, nonlinear regime switching models, continuous-time financial models, generalized

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method of moments, semi-nonparametric conditional density models, and the efficient method of moments. Eric Zivot is an associate professor and Gary Waterman Distinguished Scholar in the Economics Department, and adjunct associate professor of finance in the Business School at the University of Washington. He regularly teaches courses on econometric theory, financial econometrics and time series econometrics, and is the recipient of the Henry T. Buechel Award for Outstanding Teaching. He is an associate editor of *Studies in Nonlinear Dynamics and Econometrics*. He has published papers in the leading econometrics journals, including *Econometrica*, *Econometric Theory*, the *Journal of Business and Economic Statistics*, *Journal of Econometrics*, and the *Review of Economics and Statistics*. Jiahui Wang is an employee of Ronin Capital LLC. He received a Ph.D. in Economics from the University of Washington in 1997. He has published in leading econometrics journals such as *Econometrica* and *Journal of Business and Economic Statistics*, and is the Principal Investigator of National Science Foundation SBIR grants. In 2002 Dr. Wang was selected as one of the "2000 Outstanding Scholars of the 21st Century" by International Biographical Centre.

This book proposes new methods to build optimal portfolios and to analyze market liquidity and volatility under market microstructure effects, as well as new financial risk measures using parametric and non-parametric techniques. In particular, it investigates the market microstructure of foreign exchange and futures markets.

This book proposes new tools and models to price options, assess market volatility, and investigate the market efficiency hypothesis. In particular, it considers new models for hedge funds and derivatives of derivatives, and adds to the literature of testing for the efficiency of markets both theoretically and

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empirically.

The purpose of this thesis is to examine the nonlinear relationships between financial (and economic) variables within the field of financial econometrics. The thesis comprises two reviews of literatures, one on nonlinear time series models and the other one on term structure of interest rates, and four empirical essays on financial applications using nonlinear modelling techniques. The first empirical essay compares different model specifications of a Markov switching CIR model on the term structure of UK interest rates. We find the least restricted model provides the best in-sample estimation results. Although models with restrictive specifications may provide slightly better out-of-sample forecasts in directional movements of the yields, the economic gains seem to be small. In the second essay, we jointly model the nominal and real term structure of the UK interest rates using a three-factor essentially affine no-arbitrage term structure model. The model-implied expected inflation rates are then used in the subsequent analysis on its nonlinear relationship with the FTSE 100 index return premiums, utilizing a smooth transition vector autoregressive model. We find the model implied expected inflation rates remain below the actual inflation rates after the independence of the Bank of England in 1997, and the recent sharp decline of the expected inflation rates may lend support to the standing ground of the central bank for keeping interest rates low. The nonlinearity test on the relationship between the FTSE 100 index return premiums and the expected inflation rates shows that there exists a nonlinear adjustment on the impact from lagged expected inflation rates to current return premiums. The third essay provides us additional insight into the nature of the aggregate stock market volatilities and its relationship to the expected returns, in a Markov switching model framework, using centuries-long aggregate stock market data from six countries (Australia, Canada, Sweden, Switzerland, UK and US). We find that the Markov switching model assuming both regime dependent mean and volatility with a 3-regime specification

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is capable to captures the extreme movements of the stock market which are short-lived. The volatility feedback effect that we studied on each of these six countries shows a positive sign on anticipating a high volatility regime of the current trading month. The investigation on the coherence in regimes over time for the six countries shows different results for different pairs of countries. In the last essay, we decompose the term premium of the North American CDX investment grade index into a permanent and a stationary component using a Markov switching unobserved component model. We explain the evolution of the two components in relating them to monetary policy and stock market variables. We establish that the inversion of the CDX index term premium is induced by sudden changes in the unobserved stationary component, which represents the evolution of the fundamentals underpinning the risk neutral probability of default in the economy. We find strong evidence that the unprecedented monetary policy response from the Fed during the crisis period was effective in reducing market uncertainty and helped to steepen the term structure of the CDX index, thereby mitigating systemic risk concerns. The impact of stock market volatility on flattening the term premium was substantially more robust in the crisis period. We also show that equity returns make a significant contribution to the CDX term premium over the entire sample period.

Part of the "Advances in Econometrics" series, this title contains chapters covering topics such as: Missing-Data Imputation in Nonstationary Panel Data Models; Markov Switching Models in Empirical Finance; Bayesian Analysis of Multivariate Sample Selection Models Using Gaussian Copulas; and, Consistent Estimation and Orthogonality.

Written by leading market risk academic, Professor Carol Alexander, Practical Financial Econometrics forms part two of the Market Risk Analysis four volume set. It introduces the econometric techniques that are

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commonly applied to finance with a critical and selective exposition, emphasising the areas of econometrics, such as GARCH, cointegration and copulas that are required for resolving problems in market risk analysis. The book covers material for a one-semester graduate course in applied financial econometrics in a very pedagogical fashion as each time a concept is introduced an empirical example is given, and whenever possible this is illustrated with an Excel spreadsheet. All together, the Market Risk Analysis four volume set illustrates virtually every concept or formula with a practical, numerical example or a longer, empirical case study. Across all four volumes there are approximately 300 numerical and empirical examples, 400 graphs and figures and 30 case studies many of which are contained in interactive Excel spreadsheets available from the the accompanying CD-ROM . Empirical examples and case studies specific to this volume include: Factor analysis with orthogonal regressions and using principal component factors; Estimation of symmetric and asymmetric, normal and Student t GARCH and E-GARCH parameters; Normal, Student t, Gumbel, Clayton, normal mixture copula densities, and simulations from these copulas with application to VaR and portfolio optimization; Principal component analysis of yield curves with applications to portfolio immunization and asset/liability management; Simulation of normal mixture and Markov switching GARCH returns; Cointegration based index tracking and pairs trading, with error correction and impulse response modelling; Markov switching regression models (Eviews code); GARCH term structure forecasting with volatility targeting; Non-linear quantile regressions with applications to hedging.

In the last twenty years, several periods of turmoil have shaped the financial and economic system. Many regulatory policies, such as Basel III, have been introduced to overcome further crises and scandals. In addition, monetary policy has experienced a transition from conventional to unconventional frameworks in most industrialized and emerging economies. For instance, turning to hedge and diversification of portfolios,

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commodities markets have attracted increasing interest. More recently, new forms of money have been introduced, such as virtual money. These changes have influenced governance features at both macro and micro levels. Therefore, calls for ethical and sustainable standards in financial and economic spheres have been growing since 2007. *Financial and Economic Systems: Transformations and New Challenges* provides readers with insights about future transformations and challenges for financial and economic systems. Prominent contributors focus on different aspects, providing a global overview of crisis implications. The book is split into four main areas: Changes in the Real Sphere, covering issues related to yields, risk, unconventional monetary policy, and macroprudential policy; Financial Markets and Macroeconomics, covering uncertainty in finance and economics; CSR, Sustainability and Ethical Finance, highlighting the emergence of corporate social responsibility; and Digitalization, Blockchain and FinTech and the consequences of these transformations on markets and economic systems.

Specially selected from *The New Palgrave Dictionary of Economics* 2nd edition, each article within this compendium covers the fundamental themes within the discipline and is written by a leading practitioner in the field. A handy reference tool.

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