

Recent Developments in Nonlinear Cointegration with Applications to Macroeconomics and Finance

Colleen Duffin and Valérie Riquenot



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Greg N. Gregoriou, Razvan Pascualau



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Recent Developments in Nonlinear Cointegration with Applications to Macroeconomics and Finance Gilles Dufrénot, Valérie Mignon, 2012-12-06 This book is an introductory exposition of different topics that emerged in the literature as unifying themes between two fields of econometrics of time series namely nonlinearity and nonstationarity Papers on these topics have exploded over the last two decades but they are rarely examined together There is undoubtedly a variety of arguments that justify such a separation But there are also good reasons that motivate their combination People who are reluctant to a combined analysis might argue that nonlinearity and nonstationarity enhance non trivial problems so their combination does not stimulate interest in regard to plausibly increased difficulties This argument can however be balanced by other ones of an economic nature A predominant idea today is that a nonstationary series exhibits persistent deviations from its long run components either deterministic or stochastic trends These persistent deviations are modeled in various ways unit root models fractionally integrated processes models with shifts in the time trend etc However there are many other behaviors inherent to nonstationary processes that are not reflected in linear models For instance economic variables with mixture distributions or processes that are state dependent undergo episodes of changing dynamics In models with multiple long run equilibria the moving from an equilibrium to another sometimes implies hysteresis Also it is known that certain shocks can change the economic fundamentals thereby reducing the possibility that an initial position is re established after a shock irreversibility

Recent Developments in Nonlinear Cointegration with Applications to Macroeconomics and Finance Gilles Dufrénot, Valérie Mignon, 2014-09-01 *Recent Developments in Nonlinear Cointegration with Applications to Macroeconomics and Finance* Gilles Dufrénot, Valérie Mignon, 2002-04-30 This book provides new insights on nonlinear cointegration and error correction models It seeks to bring together recent developments on the subject that are up until today scattered throughout the literature The authors demonstrate the importance of NECM models for studying partial adjustment problems in macroeconomics and the efficient market hypothesis in finance Even though papers on nonlinear cointegration are numerous a survey can still be made on the topic This book is accessible to a large audience that includes academics working on applied econometrics practitioners of financial markets and econometric modelling and all persons interested in time series analysis

Nonlinear Financial Econometrics: Markov Switching Models, Persistence and Nonlinear Cointegration Greg N. Gregoriou, Razvan Pascual, 2010-12-08 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 returns across developed and emerging markets

Recent Econometric Techniques for Macroeconomic and Financial Data Gilles Dufrénot, Takashi Matsuki, 2020-11-21 The book provides a comprehensive overview of the latest econometric methods for studying the dynamics of macroeconomic and financial time series It examines alternative methodological approaches and concepts

including quantile spectra and co spectra and explores topics such as non linear and non stationary behavior stochastic volatility models and the econometrics of commodity markets and globalization Furthermore it demonstrates the application of recent techniques in various fields in the frequency domain in the analysis of persistent dynamics in the estimation of state space models and new classes of volatility models The book is divided into two parts The first part applies econometrics to the field of macroeconomics discussing trend cycle decomposition growth analysis monetary policy and international trade The second part applies econometrics to a wide range of topics in financial economics including price dynamics in equity commodity and foreign exchange markets and portfolio analysis The book is essential reading for scholars students and practitioners in government and financial institutions interested in applying recent econometric time series methods to financial and economic data

The Dynamics of Emerging Stock Markets Mohamed El Hedi Arouri, Fredj Jawadi, Duc Khuong Nguyen, 2009-12-24 Emerging markets have received a particular attention of academic researchers and practitioners since they decided to open their domestic capital markets to foreign participants about three decades ago At the same time we remark that theoretical and empirical research in emerging stock markets has been particularly challenged by their fast changes in nature and size under the effects of financial liberalization and reforms This evolving feature has particularly led to a commensurate increase in sophistication of modeling techniques used for understanding financial markets In this spirit the book aims at providing the audience a comprehensive understanding of emerging stock markets in various aspects using modern financial econometric methods It addresses the empirical techniques needed by economic agents to analyze the dynamics of these markets and illustrates how they can be applied to the actual data On the other hand it presents and discusses new research findings and their implications

The Evolving Role of Asia In Global Finance Yin-Wong Cheung, Vikas Kakkar, Guonan Ma, 2011-03-10 The process of Asia s rise to a position of eminence in global finance has accelerated in the wake of the international financial crisis This volume intends to explore and understand the dynamics created by this process of transition

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Principles of Econometrics Valérie Mignon, 2024-03-07 This textbook teaches the basics of econometrics and focuses on the acquisition of methods and skills that are essential for any student to succeed in their studies as well as for any practitioner interested in applying econometric techniques Employing a pedagogical and easy to follow style the book puts into practice the various concepts presented such as statistics tests and methods among others Numerous examples and empirical applications using existing econometric and statistical software are given after each theoretical presentation The book addresses students at the undergraduate and graduate levels in economics and management as well as students of engineering and business schools It will further appeal to professionals and practitioners of econometrics such as economists and researchers in companies and institutions who will find practical solutions to the different problems they are confronted with

The Oxford Handbook of Applied Nonparametric and Semiparametric

Econometrics and Statistics Jeffrey Racine, Liangjun Su, Aman Ullah, 2013-12-31 This volume edited by Jeffrey Racine Liangjun Su and Aman Ullah contains the latest research on nonparametric and semiparametric econometrics and statistics These data driven models seek to replace the classical parametric models of the past which were rigid and often linear Chapters by leading international econometricians and statisticians highlight the interface between econometrics and statistical methods for nonparametric and semiparametric procedures They provide a balanced view of new developments in the modeling of cross section time series panel and spatial data Topics of the volume include the methodology of semiparametric models and special regressor methods inverse ill posed and well posed problems methodologies related to additive models sieve regression nonparametric and semiparametric regression and the true error of competing approximate models support vector machines and their modeling of default probability series estimation of stochastic processes and their application in Econometrics identification estimation and specification problems in semilinear time series models nonparametric and semiparametric techniques applied to nonstationary or near nonstationary variables the estimation of a set of regression equations and a new approach to the analysis of nonparametric models with exogenous treatment assignment

Recent Developments In Nonlinear Cointegration With Applications To Macroeconomics And Finance Book

Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Recent Developments In Nonlinear Cointegration With Applications To Macroeconomics And Finance**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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