

# Recent Developments in Nonlinear Cointegration with Applications to Macroeconomics and Finance

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

**Gilles Dufrenot, Valerie Mignon**



## **Recent Developments In Nonlinear Cointegration With Applications To Macroeconomics And Finance:**

*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 Aroui,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

*Fifth European Workshop on Structural Health Monitoring 2010* Fabio Casciati,Michele Giordano,2010

**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

**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

**Bilinear Control Systems** David Elliott, 2009-09-01 The mathematical theory of control became a field of study half a century ago in attempts to clarify and organize some challenging practical problems and the methods used to solve them It is known for the breadth of the mathematics it uses and its cross disciplinary vigor Its literature which can be found in Section 93 of Mathematical Reviews was at one time dominated by the theory of linear control systems which mathematically are described by linear differential equations forced by additive control inputs That theory led to well regarded numerical and symbolic computational packages for control analysis and design Nonlinear control problems are also important in these either the underlying dynamical system is nonlinear or the controls are applied in a non additive way The last four decades have seen the development of theoretical work on nonlinear control problems based on differential manifold theory nonlinear analysis and several other mathematical disciplines Many of the problems that had been solved in linear control theory plus others that are new and distinctly nonlinear have been addressed some resulting general definitions and theorems are adapted in this book to the bilinear case

Health Assessment Of Engineered Structures: Bridges, Buildings And Other Infrastructures Achintya Haldar, 2013-05-08 Health Assessment of Engineered Structures has become one of the most active research areas and has attracted multi disciplinary interest Since available financial resources are very limited extending the lifespan of existing bridges buildings and other infrastructures has become a major challenge to the engineering profession world wide Some of its related areas are only in their development phase As the study of structural health assessment matures more new areas are being

identified to complement the concept This book covers some of the most recent developments theoretical and experimental and application potentials in structural health assessment It is designed to present currently available information in an organised form to interested parties who are not experts in the subject Each chapter is authored by the most active scholars in the area After discussing the general concept various currently available methods of structural health assessment such as the use of smart sensors are presented Health Assessment discusses the following sensor types platforms and data conditioning for practical applications wireless collection of sensor data sensor power needs and on site energy harvesting and long term monitoring of structures Uncertainty in collected data is also extensively addressed A chapter discussing future directions in structural health assessment is also included

### **Time Series Analysis: Methods and Applications**

Tata Subba Rao, Suhasini Subba Rao, C.R. Rao, 2012-06-26 Handbook of Statistics is a series of self contained reference books Each volume is devoted to a particular topic in statistics with volume 30 dealing with time series

*Coping with the Complexity of Economics* Marisa Faggini, Thomas Lux, 2009-05-05 Throughout the history of economics a variety of analytical tools have been borrowed from the so called exact sciences As Schoer 1955 puts it They have taken their mathematics and their deductive techniques from physics their statistics from genetics and agronomy their systems of classification from taxonomy and chemistry their model construction techniques from astronomy and mechanics and their methods of analysis of the consequences of actions from engineering The possibility of similarities of structure in mathematical models of economic and physical systems has been an important factor in the development of neoclassical theory To treat the state of an economy as an equilibrium analogous to the equilibrium of a mechanical system has been a key concept in economics ever since it became a mathematically formalized science Adopting a Newtonian paradigm neoclassical economics often is based on three fundamental concepts Firstly the representative agent who is a scale model of the whole society with extraordinary capacities particularly concerning her capability of information processing and computation Of course this is a problematic reduction as agents are both heterogeneous and boundedly rational and limited in their cognitive capabilities Secondly it often confined itself to study systems in a state of equilibrium But this concept is not adequate to describe and to support phenomena in perpetual motion

**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

*Issues in Modeling, Forecasting and Decision-making in Financial Markets* Władysław Milo, Piotr Wdowiński, 2005 **Acta Universitatis Lodzianis**, 2005 *Mathematical Reviews*, 2003 *American Book Publishing Record*, 2003

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