

themes in modern econometrics

Unit Roots, Cointegration, and Structural Change

G. S. Maddala and In-Moo Kim

Unit Roots Cointegration And Structural Change

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Bahaa Awwad



Unit Roots Cointegration And Structural Change Unit Roots Cointegration And Structural Change:

Unit Roots, Cointegration, and Structural Change G. S. Maddala, In-Moo Kim, 1998 Time series analysis has undergone many changes in recent years with the advent of unit roots and cointegration Maddala and Kim present a comprehensive review of these important developments and examine structural change The volume provides an analysis of unit root tests problems with unit root testing estimation of cointegration systems cointegration tests and econometric estimation with integrated regressors The authors also present the Bayesian approach to these problems and bootstrap methods for small sample inference The chapters on structural change discuss the problems of unit root tests and cointegration under structural change outliers and robust methods the Markov switching model and Harvey's structural time series model Unit Roots Cointegration and Structural Change is a major contribution to Themes in Modern Econometrics of interest both to specialists and graduate and upper undergraduate students

Almost All About Unit Roots In Choi, 2015-05-12 Many economic theories depend on the presence or absence of a unit root for their validity making familiarity with unit roots extremely important to econometric and statistical theory This book introduces the literature on unit roots in a comprehensive manner to empirical and theoretical researchers in economics and other areas

Time Series Econometrics John D. Levendis, 2023-12-23 Revised and updated for the second edition this textbook allows students to work through classic texts in economics and finance using the original data and replicating their results In this book the author rejects the theorem proof approach as much as possible and emphasizes the practical application of econometrics They show with examples how to calculate and interpret the numerical results This book begins with students estimating simple univariate models in a step by step fashion using the popular Stata software system Students then test for stationarity while replicating the actual results from hugely influential papers such as those by Granger Newbold and Nelson Plosser Readers will learn about structural breaks by replicating papers by Perron and Zivot Andrews They then turn to models of conditional volatility replicating papers by Bollerslev Students estimate multi equation models such as vector autoregressions and vector error correction mechanisms replicating the results in influential papers by Sims and Granger Finally students estimate static and dynamic panel data models replicating papers by Thompson and Arellano Bond The book contains many worked out examples and many data driven exercises While intended primarily for graduate students and advanced undergraduates practitioners will also find the book useful How to best start learning time series econometrics Learning by doing This is the ethos of this book What makes this book useful is that it provides numerous worked out examples along with basic concepts It is a fresh no nonsense practical approach that students will love when they start learning time series econometrics I recommend this book strongly as a study guide for students who look for hands on learning experience Professor Sokbae Simon Lee Columbia University Co Editor of Econometric Theory and Associate Editor of Econometrics Journal

Bayesian Risk Management Matt Sekerke, 2015-08-19 A risk measurement and management framework that takes model risk seriously Most financial risk

models assume the future will look like the past but effective risk management depends on identifying fundamental changes in the marketplace as they occur Bayesian Risk Management details a more flexible approach to risk management and provides tools to measure financial risk in a dynamic market environment This book opens discussion about uncertainty in model parameters model specifications and model driven forecasts in a way that standard statistical risk measurement does not And unlike current machine learning based methods the framework presented here allows you to measure risk in a fully Bayesian setting without losing the structure afforded by parametric risk and asset pricing models Recognize the assumptions embodied in classical statistics Quantify model risk along multiple dimensions without backtesting Model time series without assuming stationarity Estimate state space time series models online with simulation methods Uncover uncertainty in workhorse risk and asset pricing models Embed Bayesian thinking about risk within a complex organization Ignoring uncertainty in risk modeling creates an illusion of mastery and fosters erroneous decision making Firms who ignore the many dimensions of model risk measure too little risk and end up taking on too much Bayesian Risk Management provides a roadmap to better risk management through more circumspect measurement with comprehensive treatment of model uncertainty

Econometrics Fumio Hayashi, 2011-12-12 The most authoritative and comprehensive synthesis of modern econometrics available Econometrics provides first year graduate students with a thoroughly modern introduction to the subject covering all the standard material necessary for understanding the principal techniques of econometrics from ordinary least squares through cointegration The book is distinctive in developing both time series and cross section analysis fully giving readers a unified framework for understanding and integrating results Econometrics covers all the important topics in a succinct manner All the estimation techniques that could possibly be taught in a first year graduate course except maximum likelihood are treated as special cases of GMM generalized methods of moments Maximum likelihood estimators for a variety of models such as probit and tobit are collected in a separate chapter This arrangement enables students to learn various estimation techniques in an efficient way Virtually all the chapters include empirical applications drawn from labor economics industrial organization domestic and international finance and macroeconomics These empirical exercises provide students with hands on experience applying the techniques covered The exposition is rigorous yet accessible requiring a working knowledge of very basic linear algebra and probability theory All the results are stated as propositions so that students can see the points of the discussion and also the conditions under which those results hold Most propositions are proved in the text For students who intend to write a thesis on applied topics the empirical applications in Econometrics are an excellent way to learn how to conduct empirical research For theoretically inclined students the no compromise treatment of basic techniques is an ideal preparation for more advanced theory courses

Modeling Financial Time Series with S-PLUS Eric Zivot, Jiahui Wang, 2013-11-11 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 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

Introductory Econometrics for Finance Chris Brooks, 2014-05-08 The only econometrics textbook written specifically for finance students with no prior knowledge of econometrics including extensive online student support

Analytical Issues in Trade, Development and Finance Ambar Nath Ghosh, Asim K. Karmakar, 2014-07-08 The book's 30 chapters are divided into three sections international trade economic development macroeconomics and finance and focus on the frontier issues in each Section I addresses analytical issues relating to trade environment linkage capital accumulation for pollution abatement possibility of technology diffusion by multinational corporations nature of innovation inducing tariff protection effects of import restriction and child labour the links between exchange rate direction of trade and financial crisis the implications for India and global economic crisis financial institutions and global capital flows and balance of payments imbalances Section II consists of discussions on the causes of widespread poverty persisting in South Asia development dividend associated with peace in South Asia issues of well being and human development implications for endogenous growth through human capital accumulation on environmental quality and taxation the rationale for a labour supply schedule for the poor switching as an investment strategy the role of government and strategic interaction in the presence of information asymmetry government's role in controlling food inflation inter state variations in levels and growth of industry in India structural breaks in India's service sector development and the phenomenon of wasted votes in India's parliamentary elections Section III deals with the effectiveness of monetary policy in

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Economic Modeling in the Post Great Recession Era

John E. Silvia, Azhar Iqbal, Sarah Watt House, 2017-01-04 Reality based modeling for today's unique economic recovery Economic Modeling in the Post Great Recession Era presents a more realistic approach to modeling using direct statistical applications to address the characteristics and trends central to current market behaviors This book's unique focus on the reality of today's markets makes it an invaluable resource for students and practitioners seeking a comprehensive guide to more accurate forecasting While most books treat the economy as if it were in a vacuum building models around idealized or perception biased behaviors this book deals with the economy as it currently stands in a state of recovery limited by financial constraints imperfect information and lags and disparities in price movements The authors identify how these characteristics impact various markets behaviors and quantify those behaviors using SAS as the primary statistical tool Today's economy bears a number of unique attributes that usual modeling methods fail to consider This book describes how to approach modeling based on real world observable data in order to make better informed decisions in today's markets Discover the three economic characteristics with the greatest impact on various markets Create economic models that mirror the current post recession reality Adopt statistical methods that identify and adapt to structural breaks and lags Factor real world imperfections into modeling for more accurate forecasting The past few years have shown a clear demarcation between policymakers forecasts and actual outcomes As the dust settles on the Great Recession after effects linger and impact our current recovery in ways that diverge from past experience and theoretical expectations Economic Modeling in the Post Great Recession Era provides comprehensive guidance grounded in reality for today's economic decision makers

The Econometric Analysis of Non-Stationary Spatial Panel Data Michael Beenstock, Daniel Felsenstein, 2019-03-27 This monograph deals with spatially dependent nonstationary time series in a way accessible to both time series econometricians wanting to understand spatial econometrics and spatial econometricians lacking a grounding in time series analysis After charting key concepts in both time series and spatial econometrics the book discusses how the spatial connectivity matrix can be estimated using spatial panel data instead of assuming it to be exogenously fixed This is followed by a discussion of spatial nonstationarity in spatial cross section data and a full exposition of non stationarity in both single and multi equation contexts including the estimation and simulation of spatial vector autoregression VAR models and spatial error correction ECM models The book reviews the literature on panel unit root tests and panel cointegration tests for spatially independent data and for data that are strongly spatially dependent It provides for the first time critical values for panel unit root tests and

panel cointegration tests when the spatial panel data are weakly or spatially dependent The volume concludes with a discussion of incorporating strong and weak spatial dependence in non stationary panel data models All discussions are accompanied by empirical testing based on a spatial panel data of house prices in Israel 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

AI and IoT: Driving Business Success and Sustainability in the Digital Age Bahaa Awwad, 2025-09-26 This book embarks on a transformative journey that explores the powerful convergence of artificial intelligence AI Internet of Things IoT and business management With the advent of these cutting edge technologies businesses have unprecedented opportunities to revolutionize their operations drive innovation and achieve remarkable success in today s digital landscape *Technical Bulletin* ,2000

Econometric Analysis Sharif Hossain, 2024-02-08 For the last four decades the uses of econometric tools and techniques irrespective of discipline have been increasing rapidly for solving problems appropriate decision making and policy formulation Generally it is accepted that the study of modern business and economics is incomplete without a proper knowledge of econometric tools and techniques In view of the increasing complexity and variety of problems in business and economics students and researchers may not be able to cope and hence may remain unfamiliar with many aspects of business and economic problems Thus this book was written to explore basic and advanced studies of econometrics for undergraduate and graduate students of business and economics as well as for researchers already engaged in these fields who require an introduction to econometric methods and their application for solving of real life problems The book offers a balanced presentation of fundamental and advanced levels of econometric concepts and methods along with practical examples of their effective application in real life problems

Encyclopedia of Business Analytics and Optimization Wang, John, 2014-02-28 As the age of Big Data emerges it becomes necessary to take the five dimensions of Big Data volume variety velocity volatility and veracity and focus these dimensions towards one critical emphasis value The Encyclopedia of Business

Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management data visualization interdisciplinary communication and others Through its critical approach and practical application this book will be a must have reference for any professional leader analyst or manager interested in making the most of the knowledge resources at their disposal **Economic and Business**

Forecasting John E. Silvia, Azhar Iqbal, Kaylyn Swankoski, Sarah Watt, Sam Bullard, 2014-03-10 Discover the secrets to applying simple econometric techniques to improve forecasting Equipping analysts practitioners and graduate students with a statistical framework to make effective decisions based on the application of simple economic and statistical methods Economic and Business Forecasting offers a comprehensive and practical approach to quantifying and accurate forecasting of key variables Using simple econometric techniques author John E Silvia focuses on a select set of major economic and financial variables revealing how to optimally use statistical software as a template to apply to your own variables of interest Presents the economic and financial variables that offer unique insights into economic performance Highlights the econometric techniques that can be used to characterize variables Explores the application of SAS software complete with simple explanations of SAS code and output Identifies key econometric issues with practical solutions to those problems Presenting the ten commandments for economic and business forecasting this book provides you with a practical forecasting framework you can use for important everyday business applications International Macroeconomics Amalia Morales

Zumaquero, 2006 The international macroeconomics area has experienced substantial growth over the past decade The goal of this volume is to present the most important developments in the international macroeconomics field in recent years The literature in this area has evolved mainly in four directions that constitute the four parts of this book In particular Part I focuses on the purchasing power parity PPP puzzle Part II presents papers that try to explain the behaviour of nominal and real exchange rates Part III covers the financial crises currency crises and contagion recent literature and finally the behaviour of exchange rates inflation and output convergence in Central and Eastern European transition economies are considered in Part IV **New Tools of Economic Dynamics** Jacek Leskow, 2005-07-13 New Tools of Economic Dynamics

gives an introduction and overview of recently developed methods and tools most of them developed outside economics to deal with the qualitative analysis of economic dynamics It reports the results of a three year research project by a European and Latin American network on the intersection of economics with mathematical statistical and computational methods and techniques Focusing upon the evolution and manifold structure of complex dynamic phenomena the book reviews and shows applications of a variety of tools such as symbolic and coded dynamics interacting agents models microsimulation in econometrics large scale system analysis and dynamical systems theory It shows the potential of a comprehensive analysis of growth fluctuations and structural change along the lines indicated by pioneers like Harrod Haavelmo Hicks Goodwin Morishima and it highlights the explanatory power of the qualitative approach they initiated Causality Between Finance

and Growth Deepak P. Sable, This book attempts to study causal relationships between several measures of financial sector growth and deepening and economic growth in the Indian context using annual data from 1950 51 to 2008 09 The relationship between financial sector development and economic growth can be analyzed from three angles financial deepening leading to economic growth economic growth leading to financial deepening and a bi directional relationship between the two The book gives a detailed description of the data used in this study book further describes the empirical methodology the main tool of analysis are the method of Granger causality Error correction Mechanism Impulse Response Function IRF and Co integration explained The data used are annual data from Handbook of Statistics on the Indian Economy Statistical Tables Relating To Banks in India Banking Statistics NSE News Private Circulation Fact Book of NSE BSE annual reports and Handbook of Statistics on The Indian Security Market by SEBI All the variables were tested for unit roots using the Dickey Fuller test 1979 which have been referred from the Enders 2003 to find out stationarity and study considers critical values at 5 per cent significance level Unit root test is performed by using the R software and difference operators have been indicated with the numerical value This study applied Granger causality test to verify causality between various variables of financial deepening and Gross Domestic Product and Per Capita Income as indicators of economic growth It is shown that for a wide range of financial variables financial deepening does indeed cause economic growth However the causality is not unidirectional in a feedback relationship economic growth too causes financial sector deepening The study supports the claims of all three schools *Applied Evolutionary Economics and Complex Systems* John Foster, Werner Hözl, 2004-01-01 This book takes up the challenge of developing an empirically based foundation for evolutionary economics built upon complex system theory

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