Applied Time Series Modelling And Forecasting Harris

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Handbook of Research on Strategic Developments and Regulatory Practice in Global Finance Olgu, Özlem 2014-11-30 The global financial crisis has called to attention the importance of financial development to economic growth as modern countries continue to struggle with debt, unemployment, and slow growth. However, a lack of agreement on how to define and measure financial development slows the development of global financial systems and markets. The Handbook of Research on Strategic Developments and Regulatory Practice in Global Finance creates a common framework for not only identifying but discussing the key factors in establishing a strong global market and financial system. This book will be a valuable reference for those interested in an in-depth understanding of the financial markets and global finance, including academics, professionals, and government agencies and institutions.

Beyond Traditional Probabilistic Methods in Economics Vladik Kreinovich 2018-11-24 This book presents recent research on probabilistic methods in economics, from machine learning to statistical analysis. Economics is a very important – and at the same a very difficult discipline. It is not easy to predict how an economy will evolve or to identify the measures needed to make an economy prosper. One of the main reasons for this is the high level of uncertainty: different difficult-to-predict events can influence the future economic behavior. To make good predictions and reasonable recommendations, this uncertainty has to be taken into account. In the past, most related research results were based on using traditional techniques from probability and statistics, such as p-value-based hypothesis testing. These techniques led to numerous successful applications, but in the last decades, several examples have emerged showing that these techniques often lead to unreliable and inaccurate predictions. It is therefore necessary to come up with new techniques for processing the corresponding uncertainty that go beyond the traditional probabilistic techniques. This book focuses on such techniques, their economic applications and the remaining challenges, presenting both related theoretical developments and their practical applications.

Artificial Neural Networks in Finance and Manufacturing Kamruzzaman, Joarder 2006-03-31 "This book presents a variety of practical applications of neural networks in two important domains of economic activity: finance and manufacturing"--Provided by publisher.

Event-Driven Mobile Financial Information Services Jan Muntermann 2007-12-20 Jan Muntermann

presents an intraday event study that is conducted within the German capital market, and provides evidence that investors could exploit intraday stock price effects following critical market events. He then develops the concept for a corresponding mobile decision support system that assists investors in identifying those events. Based on the design science research paradigm, he uses this concept in the design of a novel mobile decision support system, which can provide ubiquitous information access to private investors.

Credible Asset Allocation, Optimal Transport Methods, and Related Topics Songsak Sriboonchitta 2022-08-30 This book describes state-of-the-art economic ideas and how these ideas can be (and are) used to make economic decision (in particular, to optimally allocate assets) and to gauge the results of different economic decisions (in particular, by using optimal transport methods). Special emphasis is paid to machine learning techniques (including deep learning) and to different aspects of quantum econometrics—when quantum physics and quantum computing models are techniques are applied to study economic phenomena. Applications range from more traditional economic areas to more non-traditional topics such as economic aspects of tourism, cryptocurrencies, telecommunication infrastructure, and pandemic. This book helps student to learn new techniques, practitioners to become better knowledgeable of the state-of-the-art econometric techniques, and researchers to further develop these important research directions

Applied Time Series Econometrics Geda, Alemayehu 2015-03-16 This book attempts to demystify time series econometrics so as to equip macroeconomic researchers focusing on Africa with solid but accessible foundation in applied time series techniques that can deal with challenges of developing economic models using African data.

Applied Bayesian Forecasting and Time Series Analysis Andy Pole 1994-09-01 Practical in its approach, Applied Bayesian Forecasting and Time Series Analysis provides the theories, methods, and tools necessary for forecasting and the analysis of time series. The authors unify the concepts, model forms, and modeling requirements within the framework of the dynamic linear mode (DLM). They include a complete theoretical development of the DLM and illustrate each step with analysis of time series data. Using real data sets the authors: Explore diverse aspects of time series, including how to identify, structure, explain observed behavior, model structures and behaviors, and interpret analyses to make informed forecasts Illustrate concepts such as component decomposition, fundamental model forms including trends and cycles, and practical modeling requirements for routine change and unusual events Conduct all analyses in the BATS computer programs, furnishing online that program and the more than 50 data sets used in the text The result is a clear presentation of the Bayesian paradigm: quantified subjective judgements derived from selected models applied to time series observations. Accessible to undergraduates, this unique volume also offers complete guidelines valuable to researchers, practitioners, and advanced students in statistics, operations research, and engineering.

Applied Time Series Modelling and Forecasting Richard Harris 2003-06-02 This book covers time series modeling and forecasting for econometrics and finance students. This new edition has been simplified for more ease of use and includes new chapters and substantial important revisions.

Quantitative Methods in Tourism Economics Álvaro Matias 2012-12-13 Tourism economics is partly based on established principles from the economics discipline, but it also incorporates elements from sociology, psychology, organization theory and ecology. It has over the years turned into an appealing multi-disciplinary oriented approach to the understanding of the impacts of leisure time in a modern society, including cultural heritage, sustainable quality of life, and industrial organization of the

hospitality industry. The increasing dynamics in the tourist industry and its worldwide effects will continue to attract the attention of both the research and the policy sector in the years to come. Rather than speculating on non-observed facts, there is a clear need for evidence-based research in order to map out the complex dynamics of the tourist industry. The present volume comprises novel studies – mainly of a quantitative-analytical nature – on the supply, demand and contextual aspects of modern tourism. It contains a sound mix of theory, methodology, policy and case studies on various tourism issues in different parts of the world.

ARCH Models for Financial Applications Evdokia Xekalaki 2010-03-18 Autoregressive Conditional Heteroskedastic (ARCH) processes are used in finance to model asset price volatility over time. This book introduces both the theory and applications of ARCH models and provides the basic theoretical and empirical background, before proceeding to more advanced issues and applications. The Authors provide coverage of the recent developments in ARCH modelling which can be implemented using econometric software, model construction, fitting and forecasting and model evaluation and selection. Key Features: Presents a comprehensive overview of both the theory and the practical applications of ARCH, an increasingly popular financial modelling technique. Assumes no prior knowledge of ARCH models; the basics such as model construction are introduced, before proceeding to more complex applications such as value-at-risk, option pricing and model evaluation. Uses empirical examples to demonstrate how the recent developments in ARCH can be implemented. Provides step-by-step instructive examples, using econometric software, such as Econometric Views and the G@RCH module for the Ox software package, used in Estimating and Forecasting ARCH Models. Accompanied by a CD-ROM containing links to the software as well as the datasets used in the examples. Aimed at readers wishing to gain an aptitude in the applications of financial econometric modelling with a focus on practical implementation, via applications to real data and via examples worked with econometrics packages.

The Euro and International Financial Stability Efthymios G. Tsionas 2013-10-31 As a result of the financial crisis, the weaknesses of the Eurozone, including the public debt crisis, materialized in severe depressions in certain of its country members. In this monograph, the author analyzes structural weaknesses of the Eurozone and argues that they can be traced to (i) institutional differences, (ii) differences in the economic structures, (iii) the fundamental inability of European Bureaucracy to deal with crises, and (iv) the extreme rigidity of markets which prevents a general equilibrium in product and credit markets. He concludes that whether the Eurozone is sustainable, depends on future monetary and credit policies, and discusses the implications of reforming it in the best interest of the international banking and financial system. The recent policies of the ECB of “cheap” credit expansion are examined in detail. The approach of the work is along the lines of von Mises’ and Hayek’s Austrian tradition; additionally, substantive international empirical evidence supporting this Austrian approach is presented.

Bayesian Forecasting and Dynamic Models Mike West 2013-06-29 In this book we are concerned with Bayesian learning and forecast ing in dynamic environments. We describe the structure and theory of classes of dynamic models, and their uses in Bayesian forecasting. The principles, models and methods of Bayesian forecasting have been developed extensively during the last twenty years. This devel opment has involved thorough investigation of mathematical and sta tistical aspects of forecasting models and related techniques. With this has come experience with application in a variety of areas in commercial and industrial, scientific and socio-economic fields. In deed much of the technical development has been driven by the needs of forecasting practitioners. As a result, there now exists a relatively complete statistical and mathematical framework, although much of this is either not properly

documented or not easily accessible. Our primary goals in writing this book have been to present our view of this approach to modelling and forecasting, and to provide a rea sonably complete text for advanced university students and research workers. The text is primarily intended for advanced undergraduate and postgraduate students in statistics and mathematics. In line with this objective we present thorough discussion of mathematical and statistical features of Bayesian analyses of dynamic models, with illustrations, examples and exercises in each Chapter.

Blockchain Economics and Financial Market Innovation Umit Hacioglu 2019-12-03 This book discusses various aspects of blockchains in economic systems and investment strategies in crypto markets. It first addresses the topic from a conceptual and theoretical point of view, and then analyzes it from an assessment and investment angle. Further, it examines the opportunities and limitations of the taxation of crypto currency, as well as the political implications, such as regulation of speculation with crypto currencies. The book is intended for academicians and students in the fields of economics and finance.

Renewable and Alternative Energy: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2016-10-19 As the human population expands and natural resources become depleted, it becomes necessary to explore other sources for energy consumption and usage. Renewable and Alternative Energy: Concepts, Methodologies, Tools, and Applications provides a comprehensive overview of emerging perspectives and innovations for alternative energy sources. Highlighting relevant concepts on energy efficiency, current technologies, and ongoing industry trends, this is an ideal reference source for academics, practitioners, professionals, and upper-level students interested in the latest research on renewable energy.

Econometric Modelling with Time Series Vance Martin 2012-12-28 "Maximum likelihood estimation is a general method for estimating the parameters of econometric models from observed data. The principle of maximum likelihood plays a central role in the exposition of this book, since a number of estimators used in econometrics can be derived within this framework. Examples include ordinary least squares, generalized least squares and full-information maximum likelihood. In deriving the maximum likelihood estimator, a key concept is the joint probability density function (pdf) of the observed random variables, yt. Maximum likelihood estimation requires that the following conditions are satisfied. (1) The form of the joint pdf of yt is known. (2) The specification of the moments of the joint pdf are known. (3) The joint pdf can be evaluated for all values of the parameters, 9. Parts ONE and TWO of this book deal with models in which all these conditions are satisfied. Part THREE investigates models in which these conditions are not satisfied and considers four important cases. First, if the distribution of yt is misspecified, resulting in both conditions 1 and 2 being violated, estimation is by quasi-maximum likelihood (Chapter 9). Second, if condition 1 is not satisfied, a generalized method of moments estimator (Chapter 10) is required. Third, if condition 2 is not satisfied, estimation relies on nonparametric methods (Chapter 11). Fourth, if condition 3 is violated, simulation-based estimation methods are used (Chapter 12). 1.2 Motivating Examples To highlight the role of probability distributions in maximum likelihood estimation, this section emphasizes the link between observed sample data and 4 The Maximum Likelihood Principle the probability distribution from which they are drawn"-- publisher.

A Guide to Econometric Methods for the Energy-Growth Nexus Angeliki Menegaki 2020-11-10 A Guide to Econometric Methods for the Energy-Growth Nexus presents, explains and compares all the available econometrics methods pertinent to the energy-growth nexus. Chapters cover methods and applications, starting with older econometric methods and moving toward new ones. Each chapter presents the method and facts about its applications, providing step-by-step explanations about the ways the method

meets the demands of the field. In addition, applied case studies and practical research steps are included to enhance the learning process. By touching on all relevant econometric methods for the energy-growth nexus, this book gives energy-growth researchers and students all they need to tackle the subject matter. Presents econometric methods for short- and long-term forecasting Provides methods and step-by-step explanations on the ways the method meets the demands of the field Contains applied case studies and practical research steps

The Economics of Self-Employment and Entrepreneurship Simon C. Parker 2004-02-19 As self-employment and entrepreneurship become increasingly important in our modern economies, Simon C. Parker provides a timely, definitive and comprehensive overview of the field. In this book he brings together and assesses the large and disparate literature on these subjects and provides an up-to-date overview of new research findings. Key issues addressed include: the impact of ability, risk, personal characteristics and the macroeconomy on entrepreneurship; issues involved in raising finance for entrepreneurial ventures, with an emphasis on the market failures that can arise as a consequence of asymmetric information; the job creation performance of the self-employed; the growth, innovation and exit behaviour of new ventures and small firms; and the appropriate role for governments interested in promoting self-employment and entrepreneurship. This book will serve as an essential reference guide to researchers, students and teachers of entrepreneurship in economics, business and management and other related disciplines.

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.

International Business: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2016-03-17 Business transactions and partnerships across borders have become easier than ever due to globalization and global digital connectivity. As part of this shift in the business sphere, managers, executives, and strategists across industries must acclimate themselves with the challenges and opportunities for conducting business globally. International Business: Concepts, Methodologies, Tools, and Applications presents the latest research innovations focusing on cross-cultural communications and training, international relations, multinational enterprises, outsourcing, international business strategies, and competitive advantage in the global marketplace. This publication is an exhaustive multi-volume work essential to academic and corporate libraries who serve researchers, scholars, business executives and professionals, and graduate-level business students.

Asset Allocation Considerations for Pension Insurance Funds Christian Hertrich 2013-04-16 The central research objective of the dissertation is to assess the suitability of Social Responsible Investments (SRIs) as well as alternative investments for the strategic asset allocation of German Pension Insurance Funds (Pensionskassen). Using a Vector Error Correction model, we estimate the data generating process of the underlying input variables. A bootstrap simulation allows generating future return paths of the underlying portfolios. These return distributions will subsequently be used as input for different asset allocation strategies.The empirical results of our research study offer valuable

conclusions: (1) SRI-structured portfolios consistently perform better than conventional portfolios, (2) including alternative investments has a beneficial effect on the risk-return distribution and (3) derivative overlay structures mitigate downside risk exposure without impacting average fund performance. In terms of alternative allocation models, (1) high-equity portfolios lead to an increase in return volatility without sufficiently compensating investors with higher returns, (2) hedging against price increases by engineering a portfolio with inflation-suitable assets yields mixed results, (3) a portfolio composition that combines derivative overlay strategies for both equities and corporate bonds and uses SRI-screened assets as underlying generates the best results.

Recent Econometric Techniques for Macroeconomic and Financial Data Gilles Dufrénot 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.

Mathematical Models in Economics - Volume I Wei-Bin Zhang 2009-06-10 Mathematical Models in Economics is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems (EOLSS), an integrated compendium of twenty one Encyclopedias. This theme is organized into several different topics and introduces the applications of mathematics to economics. Mathematical economics has experienced rapid growth, generating many new academic fields associated with the development of mathematical theory and computer. Mathematics is the backbone of modern economics. It plays a basic role in creating ideas, constructing new theories, and empirically testing ideas and theories. Mathematics is now an integral part of economics. The main advances in modern economics are characterized by applying mathematics to various economic problems. Many of today's profound insights into economic problems could hardly be obtained without the help of mathematics. The concepts of equilibrium versus non-equilibrium, stability versus instability, and steady states versus chaos in the contemporary literature are difficult to explain without mathematics. The theme discusses on modern versions of some classical economic theories, taking account of balancing between significance of economic issues and mathematical techniques. These two volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

A Guide to Econometrics Peter Kennedy 2008-02-19 This is the perfect (and essential) supplement for all econometrics classes--from a rigorous first undergraduate course, to a first master's, to a PhD course. Explains what is going on in textbooks full of proofs and formulas Offers intuition, skepticism, insights, humor, and practical advice (dos and don’ts) Contains new chapters that cover instrumental variables and computational considerations Includes additional information on GMM, nonparametrics, and an introduction to wavelets

Time Series Econometrics John D. Levendis 2019-01-31 In this book, the author rejects the theorem-proof approach as much as possible, and emphasize 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 and Newbold, and Nelson and Plosser. Readers will learn about structural breaks by replicating papers by Perron, and Zivot and Andrews. They then turn to models of conditional volatility, replicating papers by Bollerslev. Finally, students estimate multi-equation models such as vector autoregressions and vector error-correction mechanisms, replicating the results in influential papers by Sims and Granger. 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.

The Analysis of Time Series Chris Chatfield 2019-04-25 This new edition of this classic title, now in its seventh edition, presents a balanced and comprehensive introduction to the theory, implementation, and practice of time series analysis. The book covers a wide range of topics, including ARIMA models, forecasting methods, spectral analysis, linear systems, state-space models, the Kalman filters, nonlinear models, volatility models, and multivariate models. It also presents many examples and implementations of time series models and methods to reflect advances in the field. Highlights of the seventh edition: A new chapter on univariate volatility models A revised chapter on linear time series models A new section on multivariate volatility models A new section on regime switching models Many new worked examples, with R code integrated into the text The book can be used as a textbook for an undergraduate or a graduate level time series course in statistics. The book does not assume many prerequisites in probability and statistics, so it is also intended for students and data analysts in engineering, economics, and finance.

Forecasting: principles and practice Rob J Hyndman 2018-05-08 Forecasting is required in many situations. Stocking an inventory may require forecasts of demand months in advance. Telecommunication routing requires traffic forecasts a few minutes ahead. Whatever the circumstances or time horizons involved, forecasting is an important aid in effective and efficient planning. This textbook provides a comprehensive introduction to forecasting methods and presents enough information about each method for readers to use them sensibly.

Handbook of Research on Emerging Theories, Models, and Applications of Financial Econometrics Burcu Adıgüzel Mercangöz 2021-02-17 This handbook presents emerging research exploring the theoretical and practical aspects of econometric techniques for the financial sector and their applications in economics. By doing so, it offers invaluable tools for predicting and weighing the risks of multiple investments by incorporating data analysis. Throughout the book the authors address a broad range of topics such as predictive analysis, monetary policy, economic growth, systemic risk and investment behavior. This book is a must-read for researchers, scholars and practitioners in the field of economics who are interested in a better understanding of current research on the application of econometric methods to financial sector data.

Time Series Analysis of Irregularly Observed Data E. Parzen 2012-12-06 With the support of the Office of Naval Research Program on Statistics and Probability (Dr. Edward J. Wegman, Director), The Department of Statistics at Texas A&M University hosted a Symposium on Time Series Analysis of Irregularly Observed Data during the period February 10-13, 1983. The symposium aimed to provide a review of the state of the art, define outstanding problems for research by theoreticians, transmit to

practitioners recently developed algorithms, and stimulate interaction between statisticians and researchers in subject matter fields. Attendance was limited to actively involved researchers. This volume contains refereed versions of the papers presented at the Symposium. We would like to express our appreciation to the many colleagues and staff members whose cheerful help made the Symposium a successful happening which was enjoyed socially and intellectually by all participants. I would like to especially thank Dr. Donald W. Marquardt whose interest led me to undertake to organize this Symposium. This volume is dedicated to the world wide community of researchers who develop and apply methods of statistical analysis of time series. r:;) \J Picture Caption Participants in Symposium on Time Series Analysis of Irregularly Observed Data at Texas A&M University, College Station, Texas, February 10-13, 1983 First Row: Henry L. Gray, D. W. Marquardt, P. M. Robinson, Emanuel Parzen, Julia Abrahams, E. Masry, H. L. Weinert, R. H. Shumway.

Empirical Finance for Finance and Banking Robert Sollis 2012-02-06 Empirical Finance for Finance and Banking provides the student with a relatively non-technical guide to some of the key topics in finance where empirical methods play an important role Written for students taking Master's degrees in finance and banking, it is also suitable for students and researchers in other areas, including economics. The first three introductory chapters outline the structure of the book and review econometric and statistical techniques, while the remaining chapters discuss various topics, including: portfolio theory and asset allocation, asset pricing and factor models, market efficiency, modelling and forecasting exchange and interest rates and Value at Risk. Understanding these topics and the methods covered will be helpful for students interested in working as analysts and researchers in financial institutions.

Time Series Analysis and Applications Nawaz Mohamudally 2018-01-24 Time Series Analysis (TSA) and Applications offers a dense content of current research and development in the field of data science. The book presents time series from a multidisciplinary approach that covers a wide range of sectors ranging from biostatistics to renewable energy forecasting. Contrary to previous literatures on time, serious readers will discover the potential of TSA in areas other than finance or weather forecasting. The choice of the algorithmic transform for different scenarios, which is a key determinant in the application of TSA, can be understood through the diverse domain applications. Readers looking for deep understanding and practicability of TSA will be delighted. Early career researchers too will appreciate the technicalities and refined mathematical complexities surrounding TSA. Our wish is that this book adds to the body of TSA knowledge and opens up avenues for those who are looking forward to applying TSA in their own context.

Applied Time Series Modelling & Forecasting Richard Harris Robert Sollis

International Journal of forecasting 2004

Forecasting in the Presence of Structural Breaks and Model Uncertainty David E. Rapach 2008-02-29 Forecasting in the presence of structural breaks and model uncertainty are active areas of research with implications for practical problems in forecasting. This book addresses forecasting variables from both Macroeconomics and Finance, and considers various methods of dealing with model instability and model uncertainty when forming forecasts.

Postmodern Portfolio Theory James Ming Chen 2016-07-26 This survey of portfolio theory, from its modern origins through more sophisticated, "postmodern" incarnations, evaluates portfolio risk according to the first four moments of any statistical distribution: mean, variance, skewness, and excess kurtosis. In pursuit of financial models that more accurately describe abnormal markets and investor

psychology, this book bifurcates beta on either side of mean returns. It then evaluates this traditional risk measure according to its relative volatility and correlation components. After specifying a four-moment capital asset pricing model, this book devotes special attention to measures of market risk in global banking regulation. Despite the deficiencies of modern portfolio theory, contemporary finance continues to rest on mean-variance optimization and the two-moment capital asset pricing model. The term postmodern portfolio theory captures many of the advances in financial learning since the original articulation of modern portfolio theory. A comprehensive approach to financial risk management must address all aspects of portfolio theory, from the beautiful symmetries of modern portfolio theory to the disturbing behavioral insights and the vastly expanded mathematical arsenal of the postmodern critique. Mastery of postmodern portfolio theory's quantitative tools and behavioral insights holds the key to the efficient frontier of risk management.

Perspectives on Integration and Globalisation Helena Marques 2008 Problems of integration and globalisation and the implications of such processes on individual countries have been on the spotlight of the economic debate among economists and politicians over the last decade. Both developed and developing countries are involved in the processes of trade and capital liberalisation, with the extent of gain or loss depending on their ability to explore the newly arising opportunities and to adapt their economies to the new international environment. This volume analyses some of these challenges brought by the movements towards a higher regional integration and higher international interdependency.

Handbook of Research on Globalization, Investment, and Growth-Implications of Confidence and Governance Das, Ramesh Chandra 2015-04-30 The global economic crises of recent years have offered some sobering lessons, compelling economists, political scientists, and policymakers to reconsider traditional theories regarding the cultivation of developing nations. The Handbook of Research on Globalization, Investment, and Growth-Implications of Confidence and Governance seeks to empirically explore the relationship between a number of variables, including consumer confidence, private-sector performance, and governmental regulation. Targeting academics, social scientists, financial professionals, and lawmakers, this book seeks to categorize and analyze developing economies in a post-crisis global financial landscape in order to help shape desperately-needed policies capable of safeguarding against potential catastrophe.

Handbook of Regions and Competitiveness Robert Huggins 2017-03-31 The aim of this Handbook is to take stock of regional competitiveness and complementary concepts as a means of presenting a state-of-the-art discussion of the contemporary theories, perspectives and empirical explanations that help make sense of the determinants of uneven development across regions. Drawing on an international field of leading scholars, the book is assembled and organized so that readers can first learn about the theoretical underpinnings of regional competitiveness and development theory, before moving on to deeper discussions of key factors and principal elements, the emergence of allied concepts, empirical applications, and the policy context.

Applications of Mathematics in Models, Artificial Neural Networks and Arts Vittorio Capecchi 2010-08-03 The book shows a very original organization addressing in a non traditional way, but with a systematic approach, to who has an interest in using mathematics in the social sciences. The book is divided in four parts: (a) a historical part, written by Vittorio Capecchi which helps us understand the changes in the relationship between mathematics and sociology by analyzing the mathematical models of Paul F. Lazarsfeld, the model of simulation and artificial societies, models of artificial neural network and considering all the changes in scientific paradigms considered; (b) a part coordinated by Pier Luigi

Contucci on mathematical models that consider the relationship between the mathematical models that come from physics and linguistics to arrive at the study of society and those which are born within sociology and economics; (c) a part coordinated by Massimo Buscema analyzing models of artificial neural networks; (d) a part coordinated by Bruno D'Amore which considers the relationship between mathematics and art. The title of the book "Mathematics and Society" was chosen because the mathematical applications exposed in the book allow you to address two major issues: (a) the general theme of technological innovation and quality of life (among the essays are on display mathematical applications to the problems of combating pollution and crime, applications to mathematical problems of immigration, mathematical applications to the problems of medical diagnosis, etc.) (b) the general theme of technical innovation and creativity, for example the art and mathematics section which connects to the theme of creative cities. The book is very original because it is not addressed only to those who are passionate about mathematical applications in social science but also to those who, in different societies, are: (a) involved in technological innovation to improve the quality of life; (b) involved in the wider distribution of technological innovation in different areas of creativity (as in the project "Creative Cities Network" of UNESCO).

EU Crisis and the Role of the Periphery Anastasios Karasavvoglou 2014-10-10 The European economy is still in recession, even though there are some weak indications of stabilization. This book examines important aspects of the crisis in selected countries of Southern Europe, the Balkans and Eastern Europe. The intensity of the crisis and its economic and social repercussions have varied from country to country, generally impacting the core countries less than those on the periphery. The countries in the latter group currently face significant structural challenges with regard to improving productivity and competitiveness, including the areas of investment, climate, the labour market, and the public sector. The book not only illustrates the scope of the problem, but also informs readers on the policies implemented to address it, and discusses the progress some of the economies have already made. Special topics include the convergence hypothesis, agriculture and growth, Public-Private Partnership in Infrastructure (PPPI), and the labour market.

The Economics and Econometrics of the Energy-Growth Nexus Angeliki Menegaki 2018-03-29 The Economics and Econometrics of the Energy-Growth Nexus recognizes that research in the energy-growth nexus field is heterogeneous and controversial. To make studies in the field as comparable as possible, chapters cover aggregate energy and disaggregate energy consumption and single country and multiple country analysis. As a foundational resource that helps researchers answer fundamental questions about their energy-growth projects, it combines theory and practice to classify and summarize the literature and explain the econometrics of the energy-growth nexus. The book provides order and guidance, enabling researchers to feel confident that they are adhering to widely accepted assumptions and procedures. Provides guidance about selecting and implementing econometric tools and interpreting empirical findings Equips researchers to get clearer pictures of the most robust relationships between variables Covers up-to-date empirical and econometric methods Combines theory and practice to classify and summarize the literature and explain the econometrics of the energy-growth nexus