

EMPIRICAL MODELING IN ECONOMICS

Specification and Evaluation



CLIVE W. J. GRANGER

Empirical Modeling In Economics Specification And Evaluation

David F. Hendry, Jurgen A. Doornik



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Empirical Modeling in Economics C. W. J. Granger,1999 *Empirical Modeling in Economics* Clive W. J.

Granger,1999-09-30 Lucid account of the process of constructing and evaluating an empirical model *Empirical Modeling in Economics* Clive William John Granger,1999 Clive W J Granger is widely regarded as one of the greatest living social scientists In this book designed for scholars researchers and senior undergraduates he considers the process of constructing and evaluating an empirical model Using case studies from the arts and social sciences he provides a concise and entertaining account **Empirical Model Discovery and Theory Evaluation** David F. Hendry,Jurgen A.

Doornik,2014-07-04 A synthesis of the authors groundbreaking econometric research on automatic model selection which uses powerful computational algorithms and theory evaluation Economic models of empirical phenomena are developed for a variety of reasons the most obvious of which is the numerical characterization of available evidence in a suitably parsimonious form Another is to test a theory or evaluate it against the evidence still another is to forecast future outcomes Building such models involves a multitude of decisions and the large number of features that need to be taken into account can overwhelm the researcher Automatic model selection which draws on recent advances in computation and search algorithms can create and then empirically investigate a vastly wider range of possibilities than even the greatest expert In this book leading econometricians David Hendry and Jurgen Doornik report on their several decades of innovative research on automatic model selection After introducing the principles of empirical model discovery and the role of model selection Hendry and Doornik outline the stages of developing a viable model of a complicated evolving process They discuss the discovery stages in detail considering both the theory of model selection and the performance of several algorithms They describe extensions to tackling outliers and multiple breaks leading to the general case of more candidate variables than observations Finally they briefly consider selecting models specifically for forecasting **The Oxford Handbook of**

Economic Forecasting Michael P. Clements,David F. Hendry,2011-06-29 This Handbook provides up to date coverage of both new and well established fields in the sphere of economic forecasting The chapters are written by world experts in their respective fields and provide authoritative yet accessible accounts of the key concepts subject matter and techniques in a number of diverse but related areas It covers the ways in which the availability of ever more plentiful data and computational power have been used in forecasting in terms of the frequency of observations the number of variables and the use of multiple data vintages Greater data availability has been coupled with developments in statistical theory and economic analysis to allow more elaborate and complicated models to be entertained the volume provides explanations and critiques of these developments These include factor models DSGE models restricted vector autoregressions and non linear models as well as models for handling data observed at mixed frequencies high frequency data multiple data vintages methods for forecasting when there are structural breaks and how breaks might be forecast Also covered are areas which are less

commonly associated with economic forecasting such as climate change health economics long horizon growth forecasting and political elections Econometric forecasting has important contributions to make in these areas along with how their developments inform the mainstream

The Econometrics of Macroeconomic Modelling Gunnar Bårdsen, Øyvind Eitrheim, Eilev Jansen, Ragnar Nymoen, 2005-04-14

Macroeconometric models in many ways the flagships of the economist's profession in the 1960s came under increasing attack from both theoretical economist and practitioners in the late 1970s Critics referred to their lack of microeconomic theoretical foundations ad hoc models of expectations lack of identification neglect of dynamics and non stationarity and poor forecasting properties By the start of the 1990s the status of macroeconometric models had declined markedly and had fallen completely out of and with academic economics Nevertheless unlike the dinosaurs to which they often have been likened macroeconometric models have never completely disappeared from the scene This book describes how and why the discipline of macroeconometric modelling continues to play a role for economic policymaking by adapting to changing demands in response for instance to new policy regimes like inflation targeting Model builders have adopted new insights from economic theory and taken advantage of the methodological and conceptual advances within time series econometrics over the last twenty years The modelling of wages and prices takes a central part in the book as the authors interpret and evaluate the last forty years of international research experience in the light of the Norwegian main course model of inflation in a small open economy The preferred model is a dynamic model of incomplete competition which is evaluated against alternatives as diverse as the Phillips curve Nickell Layard wage curves the New Keynesian Phillips curve and monetary inflation models on data from the Euro area the UK and Norway The wage price core model is built into a small econometric model for Norway to analyse the transmission mechanism and to evaluate monetary policy rules The final chapter explores the main sources of forecast failure likely to occur in a practical modelling situation using the large scale model RIMINI and the inflation models of earlier chapters as case studies

Macroeconometric Models for Portfolio Management Jeremy Kwok, 2021-09-07

Macroeconometric Models for Portfolio Management begins by outlining a portfolio management framework into which macroeconometric models and backtesting investment strategies are integrated It is followed by a discussion on the theoretical backgrounds of both small and global large macroeconometric models including data selection estimation and applications Other practical concerns essential to managing a portfolio with decisions driven by macro models are also covered model validation forecast combination and evaluation The author then focuses on applying these models and their results on managing the portfolio including making trading rules and asset allocation across different assets and risk management The book finishes by showing portfolio examples where different investment strategies are used and illustrate how the framework can be applied from the beginning of collecting data model estimation and generating forecasts to how to manage portfolios accordingly This book aims to bridge the gap between academia and practising professionals Readers will attain a rigorous

understanding of the theory and how to apply these models to their portfolios Therefore Macroeconometric Models for Portfolio Management will be of interest to academics and scholars working in macroeconomics and finance to industry professionals working in financial economics and asset management to asset managers and investors who prefer systematic investing over discretionary investing and to investors who have a strong interest in macroeconomic influences on their portfolio

Forecasting Volatility in the Financial Markets Stephen Satchell, John Knight, 2011-02-24 Forecasting Volatility in the Financial Markets Third Edition assumes that the reader has a firm grounding in the key principles and methods of understanding volatility measurement and builds on that knowledge to detail cutting edge modelling and forecasting techniques It provides a survey of ways to measure risk and define the different models of volatility and return Editors John Knight and Stephen Satchell have brought together an impressive array of contributors who present research from their area of specialization related to volatility forecasting Readers with an understanding of volatility measures and risk management strategies will benefit from this collection of up to date chapters on the latest techniques in forecasting volatility Chapters new to this third edition What good is a volatility model Engle and Patton Applications for portfolio variety Dan diBartolomeo A comparison of the properties of realized variance for the FTSE 100 and FTSE 250 equity indices Rob Cornish Volatility modeling and forecasting in finance Xiao and Aydemir An investigation of the relative performance of GARCH models versus simple rules in forecasting volatility Thomas A Silvey Leading thinkers present newest research on volatility forecasting International authors cover a broad array of subjects related to volatility forecasting Assumes basic knowledge of volatility financial mathematics and modelling

Model Building in Economics Lawrence A. Boland, 2014 Concern about the role and the limits of modeling has heightened after repeated questions were raised regarding the dependability and suitability of the models that were used in the run up to the 2008 financial crash In this book Lawrence Boland provides an overview of the practices of and the problems faced by model builders to explain the nature of models the modeling process and the possibility for and nature of their testing In a reflective manner the author raises serious questions about the assumptions and judgments that model builders make in constructing models In making his case he examines the traditional microeconomics macroeconomics separation with regard to how theoretical models are built and used and how they interact paying particular attention to the use of equilibrium concepts in macroeconomic models and game theory and to the challenges involved in building empirical models testing models and using models to test theoretical explanations

The Routledge Handbook of Philosophy of Scientific Modeling Tarja Knuuttila, Natalia Carrillo, Rami Koskinen, 2024-09-05 Models and modeling have played an increasingly important role in philosophy going back to the nineteenth century While philosophical interest in models has been remarkably lively over the last two decades there are still many underexplored questions The Routledge Handbook of Philosophy of Scientific Modeling is an outstanding reference source and guide to this fast growing area and is the first volume of its kind Comprised of 40 specially commissioned

chapters by an international team of contributors the Handbook is organized into five clear parts Historical and General Perspectives Philosophical Accounts of Modeling Methodological Aspects Model Construction Evaluation and Calibration Related Topics Modeling in the Wild Within these parts the Handbook covers a diverse range of topics including historical perspectives on modeling the relationship between models theories representation idealization and understanding and related topics like big data simulation and statistical and computational modeling Different kinds of models are discussed for example network models financial models and climate and synthetic models The Routledge Handbook of Philosophy of Scientific Modeling is essential reading for students and scholars of philosophy of science formal epistemology and philosophy of social sciences It is also a valuable resource for those in related fields such as computer science and information technology

Asset Price Dynamics, Volatility, and Prediction Stephen J. Taylor, 2011-02-11 This book shows how current and recent market prices convey information about the probability distributions that govern future prices Moving beyond purely theoretical models Stephen Taylor applies methods supported by empirical research of equity and foreign exchange markets to show how daily and more frequent asset prices and the prices of option contracts can be used to construct and assess predictions about future prices their volatility and their probability distributions Stephen Taylor provides a comprehensive introduction to the dynamic behavior of asset prices relying on finance theory and statistical evidence He uses stochastic processes to define mathematical models for price dynamics but with less mathematics than in alternative texts The key topics covered include random walk tests trading rules ARCH models stochastic volatility models high frequency datasets and the information that option prices imply about volatility and distributions *Asset Price Dynamics Volatility and Prediction* is ideal for students of economics finance and mathematics who are studying financial econometrics and will enable researchers to identify and apply appropriate models and methods It will likewise be a valuable resource for quantitative analysts fund managers risk managers and investors who seek realistic expectations about future asset prices and the risks to which they are exposed

Computational Econometrics Charles G. Renfro, 2004 This publication contains a substantial amount of detail about the broad history of the development of econometric software based on the personal recollections of many people For economists the computer has increasingly become the primary applied research tool and it is software that makes the computer work

Philosophico-Methodological Analysis of Prediction and its Role in Economics Wenceslao J. Gonzalez, 2015-02-19 This book develops a philosophico methodological analysis of prediction and its role in economics Prediction plays a key role in economics in various ways It can be seen as a basic science as an applied science and in the application of this science First it is used by economic theory in order to test the available knowledge In this regard prediction has been presented as the scientific test for economics as a science Second prediction provides a content regarding the possible future that can be used for prescription in applied economics Thus it can be used as a guide for economic policy i e as knowledge concerning the future to be employed for the resolution of specific problems Third

prediction also has a role in the application of this science in the public arena This is through the decision making of the agents individuals or organizations in quite different settings both in the realm of microeconomics and macroeconomics Within this context the research is organized in five parts which discuss relevant aspects of the role of prediction in economics I The problem of prediction as a test for a science II The general orientation in methodology of science and the problem of prediction as a scientific test III The methodological framework of social sciences and economics Incidence for prediction as a test IV Epistemology and methodology of economic prediction Rationality and empirical approaches and V Methodological aspects of economic prediction From description to prescription Thus the book is of interest for philosophers and economists as well as policy makers seeking to ascertain the roots of their performance The style used lends itself to a wide audience

A Practical Guide to Forecasting Financial Market Volatility Ser-Huang Poon, 2005-08-19 Financial market volatility forecasting is one of today's most important areas of expertise for professionals and academics in investment option pricing and financial market regulation While many books address financial market modelling no single book is devoted primarily to the exploration of volatility forecasting and the practical use of forecasting models *A Practical Guide to Forecasting Financial Market Volatility* provides practical guidance on this vital topic through an in depth examination of a range of popular forecasting models Details are provided on proven techniques for building volatility models with guide lines for actually using them in forecasting applications

The Black Swan: Second Edition Nassim Nicholas Taleb, 2010-05-11 The most influential book of the past seventy five years a groundbreaking exploration of everything we know about what we don't know now with a new section called On Robustness and Fragility A black swan is a highly improbable event with three principal characteristics It is unpredictable it carries a massive impact and after the fact we concoct an explanation that makes it appear less random and more predictable than it was The astonishing success of Google was a black swan so was 9 11 For Nassim Nicholas Taleb black swans underlie almost everything about our world from the rise of religions to events in our own personal lives Why do we not acknowledge the phenomenon of black swans until after they occur Part of the answer according to Taleb is that humans are hardwired to learn specifics when they should be focused on generalities We concentrate on things we already know and time and time again fail to take into consideration what we don't know We are therefore unable to truly estimate opportunities too vulnerable to the impulse to simplify narrate and categorize and not open enough to rewarding those who can imagine the impossible For years Taleb has studied how we fool ourselves into thinking we know more than we actually do We restrict our thinking to the irrelevant and inconsequential while large events continue to surprise us and shape our world In this revelatory book Taleb will change the way you look at the world and this second edition features a new philosophical and empirical essay On Robustness and Fragility which offers tools to navigate and exploit a Black Swan world Taleb is a vastly entertaining writer with wit irreverence and unusual stories to tell He has a polymathic command of subjects ranging from cognitive science to business to probability theory Elegant startling and

universal in its applications The Black Swan is a landmark book itself a black swan Probability And Statistics For Economists Yongmiao Hong,2017-11-02 Probability and Statistics have been widely used in various fields of science including economics Like advanced calculus and linear algebra probability and statistics are indispensable mathematical tools in economics Statistical inference in economics namely econometric analysis plays a crucial methodological role in modern economics particularly in empirical studies in economics This textbook covers probability theory and statistical theory in a coherent framework that will be useful in graduate studies in economics statistics and related fields As a most important feature this textbook emphasizes intuition explanations and applications of probability and statistics from an economic perspective Representation and Structure in Economics Hsiang-Ke Chao,2020-04-08 This book provides a methodological perspective on understanding the essential roles of econometric models in the theory and practice Offering a comprehensive and comparative exposition of the accounts of models in both econometrics and philosophy of science this work shows how econometrics and philosophy of science are interconnected while exploring the methodological insight of econometric modelling that can be added to modern philosophical thought The notion of structure is thoroughly discussed throughout the book The studies of the consumption function of Trygve Haavelmo Richard Stone Milton Friedman David Hendry and Robert Lucas are taken as the case studies to investigate their methodological implications of model and structure In addition to the semantic view of the scientific theories various philosophical accounts concerning scientific models are used to shed light on the methodological nature of these consumption studies in economics This book will be of great interest to scholars and students of methodology of economics and econometrics as well as anyone interested in the philosophy of science in an economic context **Handbook of Computational Econometrics** David A. Belsley,Erricos Kontoghiorghe,2009-08-18 Handbook of Computational Econometrics examines the state of the art of computational econometrics and provides exemplary studies dealing with computational issues arising from a wide spectrum of econometric fields including such topics as bootstrapping the evaluation of econometric software and algorithms for control optimization and estimation Each topic is fully introduced before proceeding to a more in depth examination of the relevant methodologies and valuable illustrations This book Provides self contained treatments of issues in computational econometrics with illustrations and invaluable bibliographies Brings together contributions from leading researchers Develops the techniques needed to carry out computational econometrics Features network studies non parametric estimation optimization techniques Bayesian estimation and inference testing methods time series analysis linear and nonlinear methods VAR analysis bootstrapping developments signal extraction software history and evaluation This book will appeal to econometricians financial statisticians econometric researchers and students of econometrics at both graduate and advanced undergraduate levels **The Black Swan** Nassim Nicholas Taleb,2009-10-13 In the author s point of view a black swan is an improbable event with three principal characteristics It is unpredictable it carries a massive impact and after the fact we concoct an

explanation that makes it appear less random and more predictable than it was Why do we not acknowledge the phenomenon of black swans until after they occur Part of the answer according to Taleb is that humans are hardwired to learn specifics when they should be focused on generalities We concentrate on things we already know and time and time again fail to take into consideration what we don't know We are therefore unable to truly estimate opportunities too vulnerable to the impulse to simplify narrate and categorize and not open enough to rewarding those who can imagine the impossible How Economists Model the World Into Numbers Marcel Boumans, 2004-12-17 Economics is dominated by model building therefore a comprehension of how such models work is vital to understanding the discipline This book provides a critical analysis of the economist's favourite tool and as such will be an enlightening read for some and an intriguing one for others

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