

# **Introduction to the Mathematical and Statistical Foundations of Econometrics**

Herman J. Bierens

# Introduction To The Mathematical And Statistical Foundations Of Econometrics

**Aris Spanos**



## **Introduction To The Mathematical And Statistical Foundations Of Econometrics:**

Introduction to the Mathematical and Statistical Foundations of Econometrics Herman J. Bierens, 2004-12-20 This book is intended for use in a rigorous introductory PhD level course in econometrics

**Introduction to the mathematical and statistical foundations of econometrics** Herman J. Bierens, 2003

*Statistical Foundations of Econometric Modelling* Aris Spanos, 1986-10-30 A thorough foundation in probability theory and statistical inference provides an introduction to the underlying theory of econometrics that motivates the student at a intuitive as well as a formal level

**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

**Econometric Modeling and Inference** Jean-Pierre Florens, Velayoudom Marimoutou, Anne Peguin-Feissolle, 2007-07-02 Presents the main statistical tools of econometrics focusing specifically on modern econometric methodology The authors unify the approach by using a small number of estimation techniques mainly generalized method of moments GMM estimation and kernel smoothing The choice of GMM is explained by its relevance in structural econometrics and its preeminent position in econometrics overall Split into four parts Part I explains general methods Part II studies statistical models that are best suited for microeconomic data Part III deals with dynamic models that are designed for macroeconomic and financial applications In Part IV the authors synthesize a set of problems that are specific to statistical methods in structural econometrics namely identification and over identification simultaneity and unobservability Many theoretical examples illustrate the discussion and can be treated as application exercises Nobel Laureate James A Heckman offers a foreword to the work

The Oxford Handbook of Applied Nonparametric and Semiparametric Econometrics and Statistics Jeffrey Racine, Liangjun Su, Aman Ullah, 2014-04 This volume edited by Jeffrey Racine Liangjun Su and Aman Ullah contains the latest research on nonparametric and semiparametric econometrics and statistics Chapters by leading international econometricians and statisticians highlight the interface between econometrics and statistical methods for nonparametric and semiparametric procedures

Econometric Modelling with Time Series Vance Martin, Stan Hurn, David Harris, 2013 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  $y_t$  Maximum likelihood estimation requires that the following conditions are satisfied

- 1 The form of the joint pdf of  $y_t$  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  $y_t$  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 **Statistical Theory and Inference** David J.

Olive, 2014-05-07 This text is for a one semester graduate course in statistical theory and covers minimal and complete sufficient statistics maximum likelihood estimators method of moments bias and mean square error uniform minimum variance estimators and the Cramer Rao lower bound an introduction to large sample theory likelihood ratio tests and uniformly most powerful tests and the Neyman Pearson Lemma A major goal of this text is to make these topics much more accessible to students by using the theory of exponential families Exponential families indicator functions and the support of the distribution are used throughout the text to simplify the theory More than 50 brand name distributions are used to illustrate the theory with many examples of exponential families maximum likelihood estimators and uniformly minimum variance unbiased estimators There are many homework problems with over 30 pages of solutions Econometric Analysis

of Stochastic Dominance Yoon-Jae Whang, 2019-01-31 This book offers an up to date comprehensive coverage of stochastic dominance and its related concepts in a unified framework A method for ordering probability distributions stochastic dominance has grown in importance recently as a way to measure comparisons in welfare economics inequality studies health economics insurance wages and trade patterns Whang pays particular attention to inferential methods and applications citing and summarizing various empirical studies in order to relate the econometric methods with real applications and using computer codes to enable the practical implementation of these methods Intuitive explanations throughout the book ensure that readers understand the basic technical tools of stochastic dominance 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

**Structural Vector Autoregressive Analysis** Lutz Kilian, Helmut Lütkepohl, 2017-11-23 Structural vector autoregressive VAR models are important tools for empirical work in macroeconomics finance and related fields This book not only reviews the many alternative structural VAR approaches discussed in the literature but also highlights their pros and cons in practice It provides guidance to empirical researchers as to the most appropriate modeling choices methods of estimating and evaluating structural VAR models The book traces the evolution of the structural VAR methodology and contrasts it with

other common methodologies including dynamic stochastic general equilibrium DSGE models It is intended as a bridge between the often quite technical econometric literature on structural VAR modeling and the needs of empirical researchers The focus is not on providing the most rigorous theoretical arguments but on enhancing the reader's understanding of the methods in question and their assumptions Empirical examples are provided for illustration **Contributions to**

**Econometrics: Volume 1** John Denis Sargan, 1988-06-16 *Introductory Econometrics for Finance* Chris

Brooks, 2019-03-28 A complete resource for finance students this textbook presents the most common empirical approaches in finance in a comprehensive and well illustrated manner that shows how econometrics is used in practice and includes detailed case studies to explain how the techniques are used in relevant financial contexts Maintaining the accessible prose and clear examples of previous editions the new edition of this best selling textbook provides support for the main industry standard software packages expands the coverage of introductory mathematical and statistical techniques into two chapters for students without prior econometrics knowledge and includes a new chapter on advanced methods Learning outcomes key concepts and end of chapter review questions with full solutions online highlight the main chapter takeaways and allow students to self assess their understanding Online resources include extensive teacher and student support materials including EViews Stata R and Python software guides Time Series and Panel Data Econometrics M. Hashem

Pesaran, 2015-10-01 This book is concerned with recent developments in time series and panel data techniques for the analysis of macroeconomic and financial data It provides a rigorous nevertheless user friendly account of the time series techniques dealing with univariate and multivariate time series models as well as panel data models It is distinct from other time series texts in the sense that it also covers panel data models and attempts at a more coherent integration of time series multivariate analysis and panel data models It builds on the author's extensive research in the areas of time series and panel data analysis and covers a wide variety of topics in one volume Different parts of the book can be used as teaching material for a variety of courses in econometrics It can also be used as reference manual It begins with an overview of basic econometric and statistical techniques and provides an account of stochastic processes univariate and multivariate time series tests for unit roots cointegration impulse response analysis autoregressive conditional heteroskedasticity models simultaneous equation models vector autoregressions causality forecasting multivariate volatility models panel data models aggregation and global vector autoregressive models GVAR The techniques are illustrated using Microfit 5 Pesaran and Pesaran 2009 OUP with applications to real output inflation interest rates exchange rates and stock prices *Econometrics* Badi H. Baltagi, 2013-11-11 This book is intended for a first year graduate course in econometrics However the first six chapters have no matrix algebra and can be used in an advanced undergraduate class This can be supplemented by some of the material in later chapters that do not require matrix algebra like the first part of Chapter 11 on simultaneous equations and Chapter 14 on time series analysis This book teaches some of the basic econometric methods and the underlying

assumptions behind them Estimation hypotheses testing and prediction are three recurrent themes in this book Some uses of econometric methods include i empirical testing of economic theory whether it is the permanent income consumption theory or purchasing power parity ii forecasting whether it is GNP or unemployment in the U S economy or future sales in the computer industry iii Estimation of price elasticities of demand or returns to scale in production More importantly econometric methods can be used to simulate the effect of policy changes like a tax increase on gasoline consumption or a ban on advertising on cigarette consumption

Probability Theory and Statistical Inference Aris Spanos,1999-09-02 A major textbook for students taking introductory courses in probability theory and statistical inference

**Environment and Planning** ,2008

**Granularity Theory with Applications to Finance and Insurance** Patrick Gagliardini,Christian Gouriéroux,2014-10-06 This book provides the first comprehensive overview of the granularity theory and its usefulness for risk analysis statistical estimation and derivative pricing

**Journal of Economic Literature** ,2006-06

**The Foundations of Econometric Analysis** David F. Hendry,Mary S. Morgan,1997-02-20 Collection of classic papers by pioneer econometricians

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