PANEL DATA ECONOMETRICS

Edited by
Badi H. Baltagi

CRITICAL CONCEPTS IN
ECONOMICS

Panel Data Econometrics

Mike Tsionas

Panel Data Econometrics:

Econometrics of Panel Data Erik Biørn,2016-10-13 Panel data is a data type increasingly used in research in economics social sciences and medicine Its primary characteristic is that the data variation goes jointly over space across individuals firms countries etc and time over years months etc Panel data allow examination of problems that cannot be handled by cross section data or time series data Panel data analysis is a core field in modern econometrics and multivariate statistics and studies based on such data occupy a growing part of the field in many other disciplines The book is intended as a text for master and advanced undergraduate courses It may also be useful for PhD students writing theses in empirical and applied economics and readers conducting empirical work on their own The book attempts to take the reader gradually from simple models and methods in scalar simple vector notation to more complex models in matrix notation A distinctive feature is that more attention is given to unbalanced panel data the measurement error problem random coefficient approaches the interface between panel data and aggregation and the interface between unbalanced panels and truncated and censored data sets The 12 chapters are intended to be largely self contained although there is also natural progression Most of the chapters contain commented examples based on genuine data mainly taken from panel data applications to economics Although the book inter alia through its use of examples is aimed primarily at students of economics and econometrics it may also be useful for readers in social sciences psychology and medicine provided they have a sufficient background in statistics notably basic regression analysis and elementary linear algebra   **Essays in Panel Data Econometrics** Marc Nerlove,2005-11-10 This volume collects seven of Marc Nerlove s previously published classic essays on panel data econometrics written over the past thirty five years together with a cogent essay on the history of the subject which began with George Biddell Airey s monograph published in 1861 Since Professor Nerlove s 1966 Econometrica paper with Pietro Balestra panel data and methods of econometric analysis appropriate to such data have become increasingly important in the discipline The principal factors in the research environment affecting the future course of panel data econometrics are the phenomenal growth in the computational power available to the individual researcher at his or her desktop and the ready availability of data sets both large and small via the Internet The best way to formulate statistical models for inference is motivated and shaped by substantive problems and understanding of the processes generating the data at hand to resolve them The essays illustrate both the role of the substantive context in shaping appropriate methods of inference and the increasing importance of computer intensive methods   **Econometric Analysis of Panel Data** Badi H. Baltagi,1995 This text provides students with a comprehensive assessment of the latest panel data techniques especially for serial correlation heteroscedasticity simultaneous equations dynamic models and incomplete panels The author proceeds from single to simultaneous equation methods   *ECONOMETRIC MODELS WITH PANEL DATA. APPLICATIONS WITH STATA* CESAR PEREZ LOPEZ,2022 This book explores the panel data econometrics through STATA The most important topics are the following Linear regression

estimators in panel data models fixed and random effects heteroskedasticity and autocorrelation in panel data models instrumental variables and two stage least squares in panel data models dynamic panel data models logit and probit panel data models censored panel data models count panel data models Tobit panel data models Poisson panel data models negative binomial panel data models and others models with panel data   Panel Data Econometrics with R Yves Croissant,Giovanni Millo,2018-08-10 Panel Data Econometrics with R provides a tutorial for using R in the field of panel data econometrics Illustrated throughout with examples in econometrics political science agriculture and epidemiology this book presents classic methodology and applications as well as more advanced topics and recent developments in this field including error component models spatial panels and dynamic models They have developed the software programming in R and host replicable material on the book s accompanying website   **Time Series and Panel Data Econometrics** M. Hashem Pesaran,2015 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

Large-dimensional Panel Data Econometrics: Testing, Estimation And Structural Changes Feng Qu,Chihwa Kao,2020-08-24 This book aims to fill the gap between panel data econometrics textbooks and the latest development on big data especially large dimensional panel data econometrics It introduces important research questions in large panels including testing for cross sectional dependence estimation of factor augmented panel data models structural breaks in panels and group patterns in panels To tackle these high dimensional issues some techniques used in Machine Learning approaches are also illustrated Moreover the Monte Carlo experiments and empirical examples are also utilised to show how to implement these new inference methods Large Dimensional Panel Data Econometrics Testing Estimation and Structural Changes also introduces new research questions and results in recent literature in this field   **Panel Methods for Finance** Marno Verbeek,2021-10-25 Financial data are typically characterised by a time series and cross sectional dimension

Accordingly econometric modelling in finance requires appropriate attention to these two or occasionally more than two dimensions of the data Panel data techniques are developed to do exactly this This book provides an overview of commonly applied panel methods for financial applications including popular techniques such as Fama MacBeth estimation one way two way and interactive fixed effects clustered standard errors instrumental variables and difference in differences Panel Methods for Finance A Guide to Panel Data Econometrics for Financial Applications by Marno Verbeek offers the reader Focus on panel methods where the time dimension is relatively small A clear and intuitive exposition with a focus on implementation and practical relevance Concise presentation with many references to financial applications and other sources Focus on techniques that are relevant for and popular in empirical work in finance and accounting Critical discussion of key assumptions robustness and other issues related to practical implementation   Econometric Analysis of Cross Section and Panel Data Jeffrey M. Wooldridge,2002 A comprehensive state of the art text on microeconometric methods

Panel Data Econometrics Donggyu Sul,2019-02-07 In the last 20 years econometric theory on panel data has developed rapidly particularly for analyzing common behaviors among individuals over time Meanwhile the statistical methods employed by applied researchers have not kept up to date This book attempts to fill in this gap by teaching researchers how to use the latest panel estimation methods correctly Almost all applied economics articles use panel data or panel regressions However many empirical results from typical panel data analyses are not correctly executed This book aims to help applied researchers to run panel regressions correctly and avoid common mistakes The book explains how to model cross sectional dependence how to estimate a few key common variables and how to identify them It also provides guidance on how to separate out the long run relationship and common dynamic and idiosyncratic dynamic relationships from a set of panel data Aimed at applied researchers who want to learn about panel data econometrics by running statistical software this book provides clear guidance and is supported by a full range of online teaching and learning materials It includes practice sections on MATLAB STATA and GAUSS throughout along with short and simple econometric theories on basic panel regressions for those who are unfamiliar with econometric theory on traditional panel regressions   *Panel Data Econometrics* Myoung-jae Lee,2002 Disk contains Four data sets Ten GAUSS programs for empirical examples in text

Econometric Analysis of Panel Data Badi H. Baltagi,1995-01 This new edition of this established textbook reflects the rapid developments in the field covering the vast research that has been conducted on panel data since its initial publication The book is packed with the most recent empirical examples from panel data literature for example a simultaneous equation on Crime will be added to chapter 7 which will be illustrated with STATA Data sets will be provided as well as the programs to implement the estimation and testing procedures described in the book on the web site Additional exercises will be added to each chapter and their solutions will be provided on the web site The text has also been fully updated with new material on dynamic panel data models and recent results on non linear panel models and in particular work on limited dependent

variables panel data models **The Econometrics of Panel Data** László Mátyás,Patrick Sevestre,2013-12-01 The aim of this volume is to provide a general overview of the econometrics of panel data both from a theoretical and from an applied viewpoint Since the pioneering papers by Edwin Kuh 1959 Yair Mundlak 1961 Irving Hoch 1962 and Pietro Balestra and Marc Nerlove 1966 the pooling of cross sections and time series data has become an increasingly popular way of quantifying economic relationships Each series provides information lacking in the other so a combination of both leads to more accurate and reliable results than would be achievable by one type of series alone Over the last 30 years much work has been done investigation of the properties of the applied estimators and test statistics analysis of dynamic models and the effects of eventual measurement errors etc These are just some of the problems addressed by this work In addition some specific diffi culties associated with the use of panel data such as attrition heterogeneity selectivity bias pseudo panels etc have also been explored The first objective of this book which takes up Parts I and II is to give as complete and up to date a presentation of these theoretical developments as possible Part I is concerned with classical linear models and their extensions Part II deals with nonlinear models and related issues logit and pro bit models latent variable models duration and count data models incomplete panels and selectivity bias point processes and simulation techniques **Analysis of Panel Data** Cheng Hsiao,2003-02-13 This book reviews the basic econometric methods that have been used to analyze panel data in other words data collected by observing a number of individuals over time Copyright Libri GmbH All rights reserved **Panel Data Econometrics: Theory** Mike Tsionas,2019 Panel Data Econometrics introduces econometric modelling Written by experts from diverse disciplines the volume uses longitudinal datasets to illuminate applications for a variety of fields such as banking financial markets tourism and transportation auctions and experimental economics Contributors emphasize techniques and applications and they accompany their explanations with case studies empirical exercises and supplementary code in R They also address panel data analysis in the context of productivity and efficiency analysis where some of the most interesting applications and advancements have recently been made **Panel Data Econometrics** Mike Tsionas,2019-06-20 Panel Data Econometrics Empirical Applications introduces econometric modelling Written by experts from diverse disciplines the volume uses longitudinal datasets to illuminate applications for a variety of fields such as banking financial markets tourism and transportation auctions and experimental economics Contributors emphasize techniques and applications and they accompany their explanations with case studies empirical exercises and supplementary code in R They also address panel data analysis in the context of productivity and efficiency analysis where some of the most interesting applications and advancements have recently been made Provides a vast array of empirical applications useful to practitioners from different application environments Accompanied by extensive case studies and empirical exercises Includes empirical chapters accompanied by supplementary code in R helping researchers replicate findings Represents an accessible resource for diverse industries including health transportation tourism economic growth and banking where

researchers are not always econometrics experts   **A Companion to Econometric Analysis of Panel Data** Badi H. Baltagi,2009-06-22 This book is a companion to Baltagi s 2008 leading graduate econometrics textbook on panel data entitled Econometric Analysis of Panel Data 4th Edition The book guides the student of panel data econometrics by solving exercises in a logical and pedagogical manner helping the reader understand learn and apply panel data methods It is also a helpful tool for those who like to learn by solving exercises and running software to replicate empirical studies It works as a complementary study guide to Baltagi 2008 and also as a stand alone book that builds up the reader s confidence in working out difficult exercises in panel data econometrics and applying these methods to empirical work The exercises start by providing some background information on partitioned regressions and the Frisch Waugh Lovell theorem Then it goes through the basic material on fixed and random effects models in a one way and two way error components models basic estimation test of hypotheses and prediction This include maximum likelihood estimation testing for poolability of the data testing for the significance of individual and time effects as well as Hausman s test for correlated effects It also provides extensions of panel data techniques to serial correlation spatial correlation heteroskedasticity seemingly unrelated regressions simultaneous equations dynamic panel models incomplete panels measurement error count panels rotating panels limited dependent variables and non stationary panels   **Panel Data Econometrics** Badi H. Baltagi,2006-04-01 This volume includes some of the papers presented at the 11th International Conference on Panel Data Texas June 2004 and other solicited papers that passed the refereeing process and includes such topics as dynamic panel data estimation non linear panel data methods and the phenomenal growth in non stationary panel data econometrics   Solutions Manual and Supplementary Materials for Econometric Analysis of Cross Section and Panel Data Jeffrey M. Wooldridge,2003 Solutions manual for a widely used graduate econometrics text   Panel Data Econometrics Mike Tsionas,2019-06-19 Panel Data Econometrics Theory introduces econometric modelling Written by experts from diverse disciplines the volume uses longitudinal datasets to illuminate applications for a variety of fields such as banking financial markets tourism and transportation auctions and experimental economics Contributors emphasize techniques and applications and they accompany their explanations with case studies empirical exercises and supplementary code in R They also address panel data analysis in the context of productivity and efficiency analysis where some of the most interesting applications and advancements have recently been made Provides a vast array of empirical applications useful to practitioners from different application environments Accompanied by extensive case studies and empirical exercises Includes empirical chapters accompanied by supplementary code in R helping researchers replicate findings Represents an accessible resource for diverse industries including health transportation tourism economic growth and banking where researchers are not always econometrics experts

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