

# ECONOMETRIC ANALYSIS OF PANEL DATA BADI H BALTAGI PDF

ECONOMETRICS OF PANEL DATA ANALYSIS OF PANEL DATA PANEL DATA ANALYSIS USING EVIEWSECONOMETRIC ANALYSIS OF PANEL DATA PANEL DATA ECONOMETRICS WITH RESSAYS IN PANEL DATA ECONOMETRICS ANALYSIS OF CHANGE THE ECONOMETRICS OF PANEL DATA THE ECONOMETRICS OF PANEL DATA ECONOMETRIC ANALYSIS OF PANEL DATA PANEL DATA THE ^AOXFORD HANDBOOK OF PANEL DATA ANALYSIS OF PANEL DATA ECONOMETRIC MODELS WITH PANEL DATA PANEL DATA ECONOMETRICS PANEL METHODS FOR FINANCE ANALYSIS OF PANELS AND LIMITED DEPENDENT VARIABLE MODELS PANEL DATA ANALYSIS APPLIED PANEL DATA ANALYSIS FOR ECONOMIC AND SOCIAL SURVEYS THE OXFORD HANDBOOK OF PANEL DATA ERIK BALTAGI CHENG HSIAO I. GUSTI NGURAH AGUNG BADI H. BALTAGI YVES CROISSANT MARC NERLOVE UWE ENGEL L. SZLO M. TY. S L. SZLO M. TY. S BADI HANI BALTAGI BADI H. BALTAGI BADI H. BALTAGI CHENG HSIAO C. SAR P. REZ L. PEZ DONGGYU SUL MARNO VERBEEK CHENG HSIAO SIMONETTA LONGHI HANS-J. RGEN ANDRE BALTAGI, BADI HANI BALTAGI ECONOMETRICS OF PANEL DATA ANALYSIS OF PANEL DATA PANEL DATA ANALYSIS USING EVIEWSECONOMETRIC ANALYSIS OF PANEL DATA PANEL DATA ECONOMETRICS WITH R ESSAYS IN PANEL DATA ECONOMETRICS ANALYSIS OF CHANGE THE ECONOMETRICS OF PANEL DATA THE ECONOMETRICS OF PANEL DATA ECONOMETRIC ANALYSIS OF PANEL DATA PANEL DATA THE ^AOXFORD HANDBOOK OF PANEL DATA ANALYSIS OF PANEL DATA ECONOMETRIC MODELS WITH PANEL DATA PANEL DATA ECONOMETRICS PANEL METHODS FOR FINANCE ANALYSIS OF PANELS AND LIMITED DEPENDENT VARIABLE MODELS PANEL DATA ANALYSIS APPLIED PANEL DATA ANALYSIS FOR ECONOMIC AND SOCIAL SURVEYS THE OXFORD HANDBOOK OF PANEL DATA ERIK BALTAGI CHENG HSIAO I. GUSTI NGURAH AGUNG BADI H. BALTAGI YVES CROISSANT MARC NERLOVE UWE ENGEL L. SZLO M. TY. S L. SZLO M. TY. S BADI HANI BALTAGI BADI H. BALTAGI BADI H. BALTAGI CHENG HSIAO C. SAR P. REZ L. PEZ DONGGYU SUL MARNO VERBEEK CHENG HSIAO SIMONETTA LONGHI HANS-J. RGEN ANDRE BALTAGI, BADI HANI BALTAGI

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

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

A COMPREHENSIVE AND ACCESSIBLE GUIDE TO PANEL DATA ANALYSIS USING EVIEWSSOFTWARE THIS BOOK EXPLORES THE USE OF EVIEWSSOFTWARE IN CREATING PANEL DATA ANALYSIS USING APPROPRIATE EMPIRICAL MODELS AND REAL DATASETS GUIDANCE IS GIVEN ON DEVELOPING ALTERNATIVE DESCRIPTIVE STATISTICAL SUMMARIES FOR EVALUATION AND PROVIDING POLICY ANALYSIS BASED ON POOL PANEL DATA VARIOUS ALTERNATIVE MODELS BASED ON PANEL DATA ARE EXPLORED INCLUDING UNIVARIATE GENERAL LINEAR MODELS FIXED EFFECT MODELS AND CAUSAL MODELS AND GUIDANCE ON THE ADVANTAGES AND DISADVANTAGES OF EACH ONE IS GIVEN PANEL DATA ANALYSIS USING EVIEWSPROVIDES STEP BY STEP GUIDANCE ON HOW TO APPLY EVIEWSSOFTWARE TO PANEL DATA ANALYSIS USING APPROPRIATE EMPIRICAL MODELS AND REAL DATASETS EXAMINES A VARIETY OF PANEL DATA MODELS ALONG WITH THE AUTHOR S OWN EMPIRICAL FINDINGS DEMONSTRATING THE ADVANTAGES AND LIMITATIONS OF EACH MODEL PRESENTS GROWTH MODELS TIME RELATED EFFECTS MODELS AND POLYNOMIAL MODELS IN ADDITION TO THE MODELS WHICH ARE COMMONLY APPLIED FOR PANEL DATA INCLUDES MORE THAN 250 EXAMPLES DIVIDED INTO THREE GROUPS OF MODELS STACKED UNSTACKED

AND STRUCTURED PANEL DATA TOGETHER WITH NOTES AND COMMENTS PROVIDES GUIDANCE ON WHICH MODELS NOT TO USE IN A GIVEN SCENARIO ALONG WITH ADVICE ON Viable ALTERNATIVES EXPLORES RECENT NEW DEVELOPMENTS IN PANEL DATA ANALYSIS AN ESSENTIAL TOOL FOR ADVANCED UNDERGRADUATE OR GRADUATE STUDENTS AND APPLIED RESEARCHERS IN FINANCE ECONOMETRICS AND POPULATION STUDIES STATISTICIANS AND DATA ANALYSTS INVOLVED WITH DATA COLLECTED OVER LONG TIME PERIODS WILL ALSO FIND THIS BOOK A USEFUL RESOURCE

THIS TEXTBOOK OFFERS A COMPREHENSIVE INTRODUCTION TO PANEL DATA ECONOMETRICS AN AREA THAT HAS ENJOYED CONSIDERABLE GROWTH OVER THE LAST TWO DECADES MICRO AND MACRO PANELS ARE BECOMING INCREASINGLY AVAILABLE AND METHODS FOR DEALING WITH THESE TYPES OF DATA ARE IN HIGH DEMAND AMONG PRACTITIONERS SOFTWARE PROGRAMS HAVE FOSTERED THIS GROWTH INCLUDING FREELY AVAILABLE PROGRAMS IN R AND NUMEROUS USER WRITTEN PROGRAMS IN BOTH STATA AND EVIEWS WRITTEN BY ONE OF THE WORLD'S LEADING RESEARCHERS AND AUTHORS IN THE FIELD ECONOMETRIC ANALYSIS OF PANEL DATA HAS ESTABLISHED ITSELF AS THE LEADING TEXTBOOK FOR GRADUATE AND POSTGRADUATE COURSES ON PANEL DATA IT PROVIDES UP TO DATE COVERAGE OF BASIC PANEL DATA TECHNIQUES ILLUSTRATED WITH REAL ECONOMIC APPLICATIONS AND DATASETS WHICH ARE AVAILABLE AT THE BOOK'S WEBSITE ON SPRINGER COM THIS NEW SIXTH EDITION HAS BEEN FULLY REVISED AND UPDATED AND INCLUDES NEW MATERIAL ON DYNAMIC PANELS LIMITED DEPENDENT VARIABLES AND NONSTATIONARY PANELS AS WELL AS SPATIAL PANEL DATA THE AUTHOR ALSO PROVIDES EMPIRICAL ILLUSTRATIONS AND EXAMPLES USING STATA AND EVIEWS THIS IS A DEFINITIVE BOOK WRITTEN BY ONE OF THE ARCHITECTS OF MODERN PANEL DATA ECONOMETRICS IT PROVIDES BOTH A PRACTICAL INTRODUCTION TO THE SUBJECT MATTER AS WELL AS A THOROUGH DISCUSSION OF THE UNDERLYING STATISTICAL PRINCIPLES WITHOUT TAXING THE READER TOO GREATLY PROFESSOR KAJAL LAHIRI STATE UNIVERSITY OF NEW YORK ALBANY USA THIS BOOK IS THE MOST COMPREHENSIVE WORK AVAILABLE ON PANEL DATA IT IS WRITTEN BY ONE OF THE LEADING CONTRIBUTORS TO THE FIELD AND IS NOTABLE FOR ITS ENCYCLOPAEDIC COVERAGE AND ITS CLARITY OF EXPOSITION IT IS USEFUL TO THEORISTS AND TO PEOPLE DOING APPLIED WORK USING PANEL DATA IT IS VALUABLE AS A TEXT FOR A COURSE IN PANEL DATA AS A SUPPLEMENTARY TEXT FOR MORE GENERAL COURSES IN ECONOMETRICS AND AS A REFERENCE PROFESSOR PETER SCHMIDT MICHIGAN STATE UNIVERSITY USA PANEL DATA ECONOMETRICS IS IN ITS ASCENDANCY COMBINING THE POWER OF CROSS SECTION AVERAGING WITH ALL THE SUBTLETIES OF TEMPORAL AND SPATIAL DEPENDENCE BADI BALTAGI PROVIDES A REMARKABLE ROADMAP OF THIS FASCINATING INTERFACE OF ECONOMETRIC METHOD ENTICING THE NOVITiate WITH TECHNICAL GENTLENESS THE EXPERT WITH COMPREHENSIVE COVERAGE AND THE PRACTITIONER WITH MANY EMPIRICAL APPLICATIONS PROFESSOR PETER C B PHILLIPS COWLES FOUNDATION YALE UNIVERSITY USA

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

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

NO DETAILED DESCRIPTION AVAILABLE FOR ANALYSIS OF CHANGE

THIS COMPLETELY RESTRUCTURED UPDATED THIRD EDITION OF THE ECONOMETRICS OF PANEL DATA FIRST PUBLISHED IN 1992 PROVIDES A GENERAL OVERVIEW OF THE ECONOMETRICS OF PANEL DATA BOTH FROM A THEORETICAL AND FROM AN APPLIED VIEWPOINT SINCE THE PIONEERING PAPERS BY KUH MUNDLAK HOCH AND BALESTRA AND NERLOVE THE POOLING OF CROSS SECTION 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 THIS THIRD ENHANCED EDITION PROVIDES A COMPLETE AND UP TO DATE PRESENTATION OF THEORETICAL DEVELOPMENTS AS WELL AS SURVEYS ABOUT HOW ECONOMETRIC TOOLS ARE USED TO STUDY FIRMS AND HOUSEHOLD'S BEHAVIORS AND OR MORE MACROECONOMIC PHENOMENA SUCH AS ECONOMIC GROWTH IT CONTAINS SIXTEEN ENTIRELY NEW CHAPTERS WHILE THE OTHERS HAVE BEEN LARGELY

REVISED TO ACCOUNT FOR RECENT DEVELOPMENTS IN THE FIELD

THIS RESTRUCTURED UPDATED THIRD EDITION PROVIDES A GENERAL OVERVIEW OF THE ECONOMETRICS OF PANEL DATA FROM BOTH THEORETICAL AND APPLIED VIEWPOINTS READERS DISCOVER HOW ECONOMETRIC TOOLS ARE USED TO STUDY ORGANIZATIONAL AND HOUSEHOLD BEHAVIORS AS WELL AS OTHER MACROECONOMIC PHENOMENA SUCH AS ECONOMIC GROWTH THE BOOK CONTAINS SIXTEEN ENTIRELY NEW CHAPTERS ALL OTHER CHAPTERS HAVE BEEN REVISED TO ACCOUNT FOR RECENT DEVELOPMENTS WITH CONTRIBUTIONS FROM WELL KNOWN SPECIALISTS IN THE FIELD THIS HANDBOOK IS A STANDARD REFERENCE FOR ALL THOSE INVOLVED IN THE USE OF PANEL DATA IN ECONOMETRICS

THE PRESENT BOOK IS A COLLECTION OF PANEL DATA PAPERS BOTH THEORETICAL AND APPLIED THEORETICAL TOPICS INCLUDE METHODOLOGY PAPERS ON PANEL DATA PROBIT MODELS TREATMENT MODELS ERROR COMPONENT MODELS WITH AN ARMA PROCESS ON THE TIME SPECIFIC EFFECTS ASYMPTOTIC TESTS FOR POOLABILITY AND THEIR BOOTSTRAPPED VERSIONS CONFIDENCE INTERVALS FOR A DOUBLY HETEROSKEDASTIC STOCHASTIC PRODUCTION FRONTIERS ESTIMATION OF SEMIPARAMETRIC DYNAMIC PANEL DATA MODELS AND A REVIEW OF SURVEY ATTRITION AND NONRESPONSE IN THE EUROPEAN COMMUNITY HOUSEHOLD PANEL APPLICATIONS INCLUDE AS DIFFERENT TOPICS AS E G THE IMPACT OF UNCERTAINTY ON UK INVESTMENT A TOBIN Q INVESTMENT MODEL USING US FIRM DATA COST EFFICIENCY OF SPANISH BANKS IMMIGRANT INTEGRATION IN CANADA THE DYNAMICS OF INDIVIDUAL HEALTH IN THE UK THE RELATION BETWEEN INFLATION AND GROWTH AMONG OECD AND APEC COUNTRIES TECHNICAL EFFICIENCY OF CEREAL FARMS IN ENGLAND AND EMPLOYMENT EFFECTS OF EDUCATION FOR DISABLED WORKERS IN NORWAY

THE OXFORD HANDBOOK OF PANEL DATA EXAMINES NEW DEVELOPMENTS IN THE THEORY AND APPLICATIONS OF PANEL DATA

THIS BOOK PROVIDES A COMPREHENSIVE COHERENT AND INTUITIVE REVIEW OF PANEL DATA METHODOLOGIES THAT ARE USEFUL FOR EMPIRICAL ANALYSIS SUBSTANTIALLY REVISED FROM THE SECOND EDITION IT INCLUDES TWO NEW CHAPTERS ON MODELING CROSS SECTIONALLY DEPENDENT DATA AND DYNAMIC SYSTEMS OF EQUATIONS SOME OF THE MORE COMPLICATED CONCEPTS HAVE BEEN FURTHER STREAMLINED OTHER NEW MATERIAL INCLUDES CORRELATED RANDOM COEFFICIENT MODELS PSEUDO PANELS DURATION AND COUNT DATA MODELS QUANTILE ANALYSIS AND ALTERNATIVE APPROACHES FOR CONTROLLING THE IMPACT OF UNOBSERVED HETEROGENEITY IN NONLINEAR PANEL DATA MODELS

DATA PANELS ARE A SPECIAL TYPE OF SAMPLES IN WHICH THE BEHAVIOR OF A CERTAIN NUMBER OF ECONOMIC AGENTS IS FOLLOWED OVER TIME IN THIS WAY THE RESEARCHER CAN PERFORM ECONOMIC ANALYSIS AND SPECIFY MODELS WITH THE DATA OF CROSS SECTION OR CROSS SECTION THAT ARE OBTAINED WHEN ALL OPERATORS ARE CONSIDERED IN AN INSTANT OF TIME DIFFERENT PATTERNS OF BEHAVIOR OF ALL PLAYERS TOGETHER STUDIED IN THE DIFFERENT TEMPORAL MOMENTS MAY THUS BE ASSESSED ALTERNATIVELY YOU CAN PERFORM THE SAME ANALYSIS CONSIDERING TIME SERIES GIVEN BY THE EVOLUTION OF EACH ECONOMIC AGENT THROUGHOUT ALL THE PERIODS OF THE SAMPLE IN THE LATTER CASE COULD BE CONSIDERED DIFFERENT PATTERNS FOR INDIVIDUAL TO INDIVIDUAL BEHAVIOR ALL THE TIME INTERVAL OF THE SAMPLE THE BOOK FOCUSES ON PRACTICAL ASPECTS OF ECONOMETRICS OF PANEL DATA PRESENTING VARIETY OF SOLVED EXERCISE WITH THE LATEST SOFTWARE STATA SAS SPSS AND EVIEW'S SOFTWARE WAS USED THE REMARKABLE READS AS FOLLOWS MODELS WITH PANEL DATA PURE PANELS AND EXPANDED PANELS COMPARISON BETWEEN ANNUAL SAMPLES COMBINATIONS OF CROSS SECTIONS DATA POOL AND PANELS ECONOMETRIC MODELS WITH PANEL DATA PANEL DATA MODELS WITH CONSTANT COEFFICIENTS PANEL DATA MODELS WITH FIXED EFFECTS PANEL DATA MODELS WITH RANDOM EFFECTS DYNAMIC PANEL DATA MODELS LOGIT AND PROBIT PANEL DATA MODELS PANEL DATA MODELS WITH EVIEW'S EVIEW'S AND MODELS WITH PANEL DATA PANELS OF CONSTANT COEFICIENTS FIXED EFFECTS AND RANDOM EFFECTS EVIEW'S AND DYNAMIC MODELS WITH PANEL DATA ARELLANO AND BOND METHODOLOGY PANEL DATA MODELS WITH STATA EXAMPLES MODELS WITH PANEL DATA LOGIT PROBIT AND POISSON MODELS WITH PANEL DATA ESTIMATION OF DYNAMIC PANELS USING THE ARELLANO BOND METHODOLOGY PANEL DATA MODELS WITH SAS 57 SAS AND MODELS WITH PANELDATA PROCEDURE TSCSREG SAS AND MODELS WITH PANEL DATA PROCEDURE PANEL PANEL DATA MODELS WITH SPSS STABILITY IN PANEL DATA MODELS STRUCTURAL CHANGE UNIT ROOTS AND COINTEGRATION STRUCTURAL STABILITY IN ECONOMETRIC MODELS UNSTABLE MODELS SPURIOUS REGRESSIONS SEASONAL TIME SERIES DETECTION OF SEASONALITY UNIT ROOTS TESTS STABLE MODELS IN THE LONG TERM THE COINTEGRATION ANALYSIS THE ERROR CORRECTION MODELS UNIT ROOTS AND COINTEGRATION IN SEASONAL SERIES UNIT ROOTS AND COINTEGRATION IN SERIES WITH STRUCTURAL CHANGE UNIT ROOTS AND COINTEGRATION WITH PANEL DATA STATIONARY AND SEASONALITY WITH EVIEW'S ROOTS UNIT COINTEGRATION AND STRUCTURAL CHANGE WITH EVIEW'S EVIEW'S AND THE CONTRASTS OF UNIT ROOTS WITH PANEL DATA COINTEGRATION IN PANEL DATA MODELS UNIT ROOTS COINTEGRATION AND STRUCTURAL CHANGE WITH SAS SAS AND UNIT ROOTS TESTS WITH PANEL DATA MODELS COINTEGRATION IN PANEL DATA MODELS

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

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

THIS IMPORTANT COLLECTION BRINGS TOGETHER LEADING ECONOMETRICIANS TO DISCUSS ADVANCES IN THE AREAS OF THE ECONOMETRICS OF PANEL DATA THE PAPERS IN THIS COLLECTION CAN BE GROUPED INTO TWO CATEGORIES THE FIRST WHICH INCLUDES CHAPTERS BY AMEMIYA BALTAGI ARELLANO BOVER AND LABEAGA PRIMARILY DEAL WITH DIFFERENT ASPECTS OF LIMITED DEPENDENT VARIABLES AND SAMPLE SELECTIVITY THE SECOND GROUP OF PAPERS INCLUDING THOSE BY NERLOVE SCHMIDT AND AHN KIVIET DAVIES AND LAHIRI CONSIDER ISSUES THAT ARISE IN THE ESTIMATION OF DYNAMIC POSSIBLY HETEROGENEOUS PANEL DATA MODELS OVERALL THE CONTRIBUTORS FOCUS ON THE ISSUES OF SIMPLIFYING COMPLEX REAL WORLD PHENOMENA INTO EASILY GENERALISABLE INFERENCES FROM INDIVIDUAL OUTCOMES AS THE CONTRIBUTIONS OF G S MADDALA IN THE FIELDS OF LIMITED DEPENDENT VARIABLES AND PANEL DATA WERE PARTICULARLY INFLUENTIAL IT IS A FITTING TRIBUTE THAT THIS VOLUME IS DEDICATED TO HIM

PANEL DATA ARE A PARTICULAR TYPE OF LONGITUDINAL DATA LONGITUDINAL DATA CONSIST OF REPEATED OBSERVATIONS OVER TIME FOR THE SAME UNIT OF ANALYSIS THIS ENTRY DISCUSSES PRACTICALITIES OF ANALYSING LONGITUDINAL DATA PARTICULARLY INDIVIDUAL AND HOUSEHOLD PANEL DATA AFTER A BRIEF DISCUSSION OF THE MOST IMPORTANT FEATURES OF PANEL DATA AND THEIR ADVANTAGES THIS ENTRY DISCUSSES ISSUES SUCH AS MISSING DATA AND REPRESENTATIVENESS OF THE SAMPLE OVER TIME THIS IS FOLLOWED BY A BRIEF OVERVIEW OF THE FILE STRUCTURE OF THE MOST COMMONLY USED INDIVIDUAL AND HOUSEHOLD PANELS AND THE MAIN STEPS NECESSARY FOR DATA PREPARATION THE MOST COMMONLY USED PANEL DATA ESTIMATORS FOR THE CASE OF CONTINUOUS DEPENDENT VARIABLES ARE THEN BRIEFLY DISCUSSED AS WELL AS HOW TO MODEL INDIVIDUAL UNOBSERVED HETEROGENEITY AND HOW TO SELECT THE MOST APPROPRIATE ESTIMATOR THIS IS FOLLOWED BY AN INTRODUCTION TO ESTIMATORS FOR LIMITED DEPENDENT VARIABLES FINALLY THE ENTRY DISCUSSES MISSING DATA SURVEY WEIGHTS AND ISSUES ARISING WHEN ANALYSING MACRO INSTEAD OF INDIVIDUAL PANELS THE FOCUS IS ON THE INTUITION BEHIND THE DIFFERENT CONCEPTS AND TECHNIQUES

MANY ECONOMIC AND SOCIAL SURVEYS ARE DESIGNED AS PANEL STUDIES WHICH PROVIDE IMPORTANT DATA FOR DESCRIBING SOCIAL CHANGES AND TESTING CAUSAL RELATIONS BETWEEN SOCIAL PHENOMENA THIS TEXTBOOK SHOWS HOW TO MANAGE DESCRIBE AND MODEL THESE KINDS OF DATA IT PRESENTS MODELS FOR CONTINUOUS AND CATEGORICAL DEPENDENT VARIABLES FOCUSING EITHER ON THE LEVEL OF THESE VARIABLES AT DIFFERENT POINTS IN TIME OR ON THEIR CHANGE OVER TIME IT COVERS FIXED AND RANDOM EFFECTS MODELS MODELS FOR CHANGE SCORES AND EVENT HISTORY MODELS ALL STATISTICAL METHODS ARE EXPLAINED IN AN APPLICATION CENTERED STYLE USING RESEARCH EXAMPLES FROM SCHOLARLY JOURNALS WHICH CAN BE REPLICATED BY THE READER THROUGH DATA PROVIDED ON THE ACCOMPANYING WEBSITE AS ALL MODELS ARE COMPARED TO EACH OTHER IT PROVIDES VALUABLE ASSISTANCE WITH CHOOSING THE RIGHT MODEL IN APPLIED RESEARCH THE TEXTBOOK IS DIRECTED AT MASTER AND DOCTORAL STUDENTS AS WELL AS APPLIED RESEARCHERS IN THE SOCIAL SCIENCES PSYCHOLOGY BUSINESS ADMINISTRATION AND ECONOMICS READERS SHOULD BE FAMILIAR WITH LINEAR REGRESSION AND HAVE A GOOD UNDERSTANDING OF ORDINARY LEAST SQUARES ESTIMATION

THIS TITLE EXAMINES NEW DEVELOPMENTS IN THEORY AND APPLICATIONS IN PANEL DATA IT INCLUDES BASIC TOPICS LIKE NONSTATIONARY PANELS CO INTEGRATION IN PANELS MULTIFACTOR PANEL MODELS PANEL UNIT

ROOTS MEASUREMENT ERROR IN PANELS INCIDENTAL PARAMETERS AND DYNAMIC PANELS SPATIAL PANELS NONPARAMETRIC PANEL DATA RANDOM COEFFICIENTS TREATMENT EFFECTS SAMPLE SELECTION COUNT PANEL DATA LIMITED DEPENDENT VARIABLE PANEL MODELS UNBALANCED PANEL MODELS WITH INTERACTIVE EFFECTS AND INFLUENTIAL OBSERVATIONS IN PANEL DATA THE SECOND PART TARGETS APPLICATIONS OF PANEL DATA IN ECONOMICS

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## INTRODUCTION

THE DIGITAL AGE HAS REVOLUTIONIZED THE WAY WE READ, MAKING BOOKS MORE ACCESSIBLE THAN EVER. WITH THE RISE OF EBOOKS, READERS CAN NOW CARRY ENTIRE LIBRARIES IN THEIR POCKETS. AMONG THE VARIOUS SOURCES FOR EBOOKS, FREE EBOOK SITES HAVE EMERGED AS A POPULAR CHOICE. THESE SITES OFFER A TREASURE TROVE OF KNOWLEDGE AND ENTERTAINMENT WITHOUT THE COST. BUT WHAT MAKES THESE SITES SO VALUABLE, AND WHERE CAN YOU FIND THE BEST ONES? LET'S DIVE INTO THE WORLD OF FREE EBOOK SITES.

## BENEFITS OF FREE EBOOK SITES

WHEN IT COMES TO READING, FREE EBOOK SITES OFFER NUMEROUS ADVANTAGES.

### COST SAVINGS

FIRST AND FOREMOST, THEY SAVE YOU MONEY. BUYING BOOKS CAN BE EXPENSIVE, ESPECIALLY IF YOU'RE AN AVID READER. FREE EBOOK SITES ALLOW YOU TO ACCESS A VAST ARRAY OF BOOKS WITHOUT SPENDING A DIME.

### ACCESSIBILITY

THESE SITES ALSO ENHANCE ACCESSIBILITY. WHETHER YOU'RE AT HOME, ON THE GO, OR HALFWAY AROUND THE WORLD, YOU CAN ACCESS YOUR FAVORITE TITLES ANYTIME, ANYWHERE, PROVIDED YOU HAVE AN INTERNET CONNECTION.

### VARIETY OF CHOICES

MOREOVER, THE VARIETY OF CHOICES AVAILABLE IS ASTOUNDING. FROM CLASSIC LITERATURE TO CONTEMPORARY NOVELS, ACADEMIC TEXTS TO CHILDREN'S BOOKS, FREE EBOOK SITES COVER ALL GENRES AND INTERESTS.

## TOP FREE EBOOK SITES

THERE ARE COUNTLESS FREE EBOOK SITES, BUT A FEW STAND OUT FOR THEIR QUALITY AND RANGE OF OFFERINGS.

### PROJECT GUTENBERG

PROJECT GUTENBERG IS A PIONEER IN OFFERING FREE EBOOKS. WITH OVER 60,000 TITLES, THIS SITE PROVIDES A WEALTH OF CLASSIC LITERATURE IN THE PUBLIC DOMAIN.

### OPEN LIBRARY

OPEN LIBRARY AIMS TO HAVE A WEBPAGE FOR EVERY BOOK EVER PUBLISHED. IT OFFERS MILLIONS OF FREE EBOOKS, MAKING IT A FANTASTIC RESOURCE FOR READERS.

## GOOGLE BOOKS

GOOGLE BOOKS ALLOWS USERS TO SEARCH AND PREVIEW MILLIONS OF BOOKS FROM LIBRARIES AND PUBLISHERS WORLDWIDE. WHILE NOT ALL BOOKS ARE AVAILABLE FOR FREE, MANY ARE.

## MANYBOOKS

MANYBOOKS OFFERS A LARGE SELECTION OF FREE EBOOKS IN VARIOUS GENRES. THE SITE IS USER-FRIENDLY AND OFFERS BOOKS IN MULTIPLE FORMATS.

## BOOKBOON

BOOKBOON SPECIALIZES IN FREE TEXTBOOKS AND BUSINESS BOOKS, MAKING IT AN EXCELLENT RESOURCE FOR STUDENTS AND PROFESSIONALS.

## HOW TO DOWNLOAD EBOOKS SAFELY

DOWNLOADING EBOOKS SAFELY IS CRUCIAL TO AVOID PIRATED CONTENT AND PROTECT YOUR DEVICES.

### AVOIDING PIRATED CONTENT

STICK TO REPUTABLE SITES TO ENSURE YOU'RE NOT DOWNLOADING PIRATED CONTENT. PIRATED EBOOKS NOT ONLY HARM AUTHORS AND PUBLISHERS BUT CAN ALSO POSE SECURITY RISKS.

### ENSURING DEVICE SAFETY

ALWAYS USE ANTIVIRUS SOFTWARE AND KEEP YOUR DEVICES UPDATED TO PROTECT AGAINST MALWARE THAT CAN BE HIDDEN IN DOWNLOADED FILES.

### LEGAL CONSIDERATIONS

BE AWARE OF THE LEGAL CONSIDERATIONS WHEN DOWNLOADING EBOOKS. ENSURE THE SITE HAS THE RIGHT TO DISTRIBUTE THE BOOK AND THAT YOU'RE NOT VIOLATING COPYRIGHT LAWS.

## USING FREE EBOOK SITES FOR EDUCATION

FREE EBOOK SITES ARE INVALUABLE FOR EDUCATIONAL PURPOSES.

### ACADEMIC RESOURCES

SITES LIKE PROJECT GUTENBERG AND OPEN LIBRARY OFFER NUMEROUS ACADEMIC RESOURCES, INCLUDING TEXTBOOKS AND SCHOLARLY ARTICLES.

### LEARNING NEW SKILLS

YOU CAN ALSO FIND BOOKS ON VARIOUS SKILLS, FROM COOKING TO PROGRAMMING, MAKING THESE SITES GREAT FOR PERSONAL DEVELOPMENT.

## SUPPORTING HOMESCHOOLING

FOR HOMESCHOOLING PARENTS, FREE EBOOK SITES PROVIDE A WEALTH OF EDUCATIONAL MATERIALS FOR DIFFERENT GRADE LEVELS AND SUBJECTS.

## GENRES AVAILABLE ON FREE EBOOK SITES

THE DIVERSITY OF GENRES AVAILABLE ON FREE EBOOK SITES ENSURES THERE'S SOMETHING FOR EVERYONE.

### FICTION

FROM TIMELESS CLASSICS TO CONTEMPORARY BESTSELLERS, THE FICTION SECTION IS BRIMMING WITH OPTIONS.

### NON-FICTION

NON-FICTION ENTHUSIASTS CAN FIND BIOGRAPHIES, SELF-HELP BOOKS, HISTORICAL TEXTS, AND MORE.

### TEXTBOOKS

STUDENTS CAN ACCESS TEXTBOOKS ON A WIDE RANGE OF SUBJECTS, HELPING REDUCE THE FINANCIAL BURDEN OF EDUCATION.

### CHILDREN'S BOOKS

PARENTS AND TEACHERS CAN FIND A PLETHORA OF CHILDREN'S BOOKS, FROM PICTURE BOOKS TO YOUNG ADULT NOVELS.

## ACCESSIBILITY FEATURES OF EBOOK SITES

EBOOK SITES OFTEN COME WITH FEATURES THAT ENHANCE ACCESSIBILITY.

### AUDIOBOOK OPTIONS

MANY SITES OFFER AUDIOBOOKS, WHICH ARE GREAT FOR THOSE WHO PREFER LISTENING TO READING.

### ADJUSTABLE FONT SIZES

YOU CAN ADJUST THE FONT SIZE TO SUIT YOUR READING COMFORT, MAKING IT EASIER FOR THOSE WITH VISUAL IMPAIRMENTS.

### TEXT-TO-SPEECH CAPABILITIES

TEXT-TO-SPEECH FEATURES CAN CONVERT WRITTEN TEXT INTO AUDIO, PROVIDING AN ALTERNATIVE WAY TO ENJOY BOOKS.

## TIPS FOR MAXIMIZING YOUR EBOOK EXPERIENCE

TO MAKE THE MOST OUT OF YOUR EBOOK READING EXPERIENCE, CONSIDER THESE TIPS.

## CHOOSING THE RIGHT DEVICE

WHETHER IT'S A TABLET, AN E-READER, OR A SMARTPHONE, CHOOSE A DEVICE THAT OFFERS A COMFORTABLE READING EXPERIENCE FOR YOU.

## ORGANIZING YOUR EBOOK LIBRARY

USE TOOLS AND APPS TO ORGANIZE YOUR EBOOK COLLECTION, MAKING IT EASY TO FIND AND ACCESS YOUR FAVORITE TITLES.

## SYNCING ACROSS DEVICES

MANY EBOOK PLATFORMS ALLOW YOU TO SYNC YOUR LIBRARY ACROSS MULTIPLE DEVICES, SO YOU CAN PICK UP RIGHT WHERE YOU LEFT OFF, NO MATTER WHICH DEVICE YOU'RE USING.

## CHALLENGES AND LIMITATIONS

DESPITE THE BENEFITS, FREE EBOOK SITES COME WITH CHALLENGES AND LIMITATIONS.

## QUALITY AND AVAILABILITY OF TITLES

NOT ALL BOOKS ARE AVAILABLE FOR FREE, AND SOMETIMES THE QUALITY OF THE DIGITAL COPY CAN BE POOR.

## DIGITAL RIGHTS MANAGEMENT (DRM)

DRM CAN RESTRICT HOW YOU USE THE EBOOKS YOU DOWNLOAD, LIMITING SHARING AND TRANSFERRING BETWEEN DEVICES.

## INTERNET DEPENDENCY

ACCESSING AND DOWNLOADING EBOOKS REQUIRES AN INTERNET CONNECTION, WHICH CAN BE A LIMITATION IN AREAS WITH POOR CONNECTIVITY.

## FUTURE OF FREE EBOOK SITES

THE FUTURE LOOKS PROMISING FOR FREE EBOOK SITES AS TECHNOLOGY CONTINUES TO ADVANCE.

## TECHNOLOGICAL ADVANCES

IMPROVEMENTS IN TECHNOLOGY WILL LIKELY MAKE ACCESSING AND READING EBOOKS EVEN MORE SEAMLESS AND ENJOYABLE.

## EXPANDING ACCESS

EFFORTS TO EXPAND INTERNET ACCESS GLOBALLY WILL HELP MORE PEOPLE BENEFIT FROM FREE EBOOK SITES.

## ROLE IN EDUCATION

AS EDUCATIONAL RESOURCES BECOME MORE DIGITIZED, FREE EBOOK SITES WILL PLAY AN INCREASINGLY VITAL

ROLE IN LEARNING.

## CONCLUSION

IN SUMMARY, FREE EBOOK SITES OFFER AN INCREDIBLE OPPORTUNITY TO ACCESS A WIDE RANGE OF BOOKS WITHOUT THE FINANCIAL BURDEN. THEY ARE INVALUABLE RESOURCES FOR READERS OF ALL AGES AND INTERESTS, PROVIDING EDUCATIONAL MATERIALS, ENTERTAINMENT, AND ACCESSIBILITY FEATURES. SO WHY NOT EXPLORE THESE SITES AND DISCOVER THE WEALTH OF KNOWLEDGE THEY OFFER?

## FAQs

ARE FREE EBOOK SITES LEGAL? YES, MOST FREE EBOOK SITES ARE LEGAL. THEY TYPICALLY OFFER BOOKS

THAT ARE IN THE PUBLIC DOMAIN OR HAVE THE RIGHTS TO DISTRIBUTE THEM. HOW DO I KNOW IF AN EBOOK SITE IS SAFE? STICK TO WELL-KNOWN AND REPUTABLE SITES LIKE PROJECT GUTENBERG, OPEN LIBRARY, AND GOOGLE BOOKS. CHECK REVIEWS AND ENSURE THE SITE HAS PROPER SECURITY MEASURES. CAN I DOWNLOAD EBOOKS TO ANY DEVICE? MOST FREE EBOOK SITES OFFER DOWNLOADS IN MULTIPLE FORMATS, MAKING THEM COMPATIBLE WITH VARIOUS DEVICES LIKE E-READERS, TABLETS, AND SMARTPHONES. DO FREE EBOOK SITES OFFER AUDIOBOOKS? MANY FREE EBOOK SITES OFFER AUDIOBOOKS, WHICH ARE PERFECT FOR THOSE WHO PREFER LISTENING TO THEIR BOOKS. HOW CAN I SUPPORT AUTHORS IF I USE FREE EBOOK SITES? YOU CAN SUPPORT AUTHORS BY PURCHASING THEIR BOOKS WHEN POSSIBLE, LEAVING REVIEWS, AND SHARING THEIR WORK WITH OTHERS.

