

Econometrics (60 points)

Question 7: Short Answers (30 points)

Answer parts 1-6 with a brief explanation.

- Suppose the model of interest is $Y_i = \beta_0 + \beta_1 X_{1i} + \beta_2 X_{2i} + u_i$, where $E(u|X)=0$ and $E(u^2|X)=\sigma^2$ and X_1 and X_2 are uncorrelated in your sample. Will the bivariate regression of Y on X_1 have the same coefficient estimate and standard error for $\hat{\beta}_1$ as the multivariate regression of Y on X_1 and X_2 ? [6 points]

Answer: The coefficient estimates will be the same but the standard error will be smaller in the multivariate regression. Let β_1^b be the coefficient on X_1 in the bivariate regression. Using the formula for omitted variables bias, we know that

$$\beta_1^b = \frac{Cov(Y, X_1)}{Var(X_1)} = \frac{Cov(\beta_1 X_1 + \beta_2 X_2 + u, X_1)}{Var(X_1)} = \beta_1 + \frac{\beta_2 Cov(X_2, X_1)}{Var(X_1)} + \frac{Cov(u, X_1)}{Var(X_1)}$$

By assumption, $Cov(X_2, X_1) = 0$ and $Cov(u, X_1) = 0$ and so $\beta_1^b = \beta_1$.
The value of β_1 in the multivariate regression can be written as

$$\beta_1^m = \frac{Cov(Y, \bar{X}_1)}{Var(\bar{X}_1)}$$

where $\bar{X}_1 = X_1 - \gamma_0 - \gamma_1 X_2 = X_1 - \bar{X}_1$ since $Cov(X_2, X_1) = 0$. Thus

$$\beta_1^m = \frac{Cov(Y, \bar{X}_1)}{Var(\bar{X}_1)} = \frac{Cov(\beta_1 X_1 + \beta_2 X_2 + u, X_1 - \bar{X}_1)}{Var(X_1 - \bar{X}_1)} = \beta_1 .$$

The standard error of the vector β is given by $\sigma^2(X'X)^{-1}$ where σ^2 is the variance of the error term and X is the vector of independent variables. Including X_2 reduces the standard error on the estimate of β_1 because it reduces σ^2 but leaves the relevant term of $(X'X)^{-1}$ unchanged since X_1 and X_2 are uncorrelated.

Point Values:

- 2 points: The estimates will be the same
- 2 points: A reason
 - 1 point for a reasonable reason
 - 1 point if it includes any mathematical derivation
- 1 point: The standard error will decrease
- 1 point: Some reasonable reason

Parts 2 to 5 refer to the demand curve,

$$\ln(Q_i) = \beta_0 + \beta_1 \ln(P_i) + \beta_2 \ln(Y_i) + u_i, \tag{1}$$

Econometrics Exam And Answers

M. Ishaq Bhatti, Hatem Al-Shanfari



Econometrics Exam And Answers:

Practical Guide to Using Econometrics, A, Global Edition A. Studenmund, A. H. Studenmund, 2017-01-19 For courses in Econometrics A Practical Guide to Using Econometrics Global Edition offers students an innovative introduction to elementary econometrics Through real world examples and exercises the book covers the topic of single equation linear regression analysis in an easily understandable format The 7th Edition is appropriate for all levels beginner econometric students regression users seeking a refresher and experienced practitioners who want a convenient reference Praised as one of the most important texts in the last 30 years the book retains its clarity and practicality in previous editions with a number of substantial improvements throughout

Time-Series-Based Econometrics Michio Hatanaka, 1996-01-25 In the last decade time series econometrics has made extraordinary developments on unit roots and cointegration However this progress has taken divergent directions and has been subjected to criticism from outside the field In this book Professor Hatanaka surveys the field examines those portions that are useful for macroeconomics and responds to the criticism His survey of the literature covers not only econometric methods but also the application of these methods to macroeconomic studies The most vigorous criticism has been that unit roots do not exist in macroeconomic variables and thus that cointegration analysis is irrelevant to macroeconomics The judgement of this book is that unit roots are present in macroeconomic variables when we consider periods of 20 to 40 years but that the critics may be right when periods of 100 years are considered Fortunately most of the time series data used for macroeconomic studies cover fall within the shorter time span Among the numerous methods for unit roots and cointegration those useful from macroeconomic studies are examined and explained in detail without overburdening the reader with unnecessary mathematics Other less applicable methods are discussed briefly and their weaknesses are exposed Hatanaka has rigorously based his judgements about usefulness on whether the inference is appropriate for the length of the data sets available and also on whether a proper inference can be made on the sort of propositions that macroeconomists wish to test This book highlights the relations between cointegration and economic theories and presents cointegrated regression as a revolution in econometric methods Its analysis is of relevance to academic and professional or applied econometricians Step by step explanations of concepts and techniques make the book a self contained text for graduate students

Econometrics Exams Edward Tower, 1995

International Handbook on Teaching and Learning Economics Gail Mitchell Hoyt, KimMarie McGoldrick, 2012 The International Handbook on Teaching and Learning Economics is a power packed resource for anyone interested in investing time into the effective improvement of their personal teaching methods and for those who desire to teach students how to think like an economist It sets guidelines for the successful integration of economics into a wide variety of traditional and non traditional settings in college and graduate courses with some attention paid to primary and secondary classrooms The International Handbook on Teaching and Learning Economics is highly recommended for all economics instructors and

individuals supporting economic education in courses in and outside of the major This Handbook provides a multitude of rich resources that make it easy for new and veteran instructors to improve their instruction in ways promising to excite an increasing number of students about learning economics This Handbook should be on every instructor's desk and referenced regularly Tawni Hunt Ferrarini The American Economist In delightfully readable short chapters by leaders in the sub fields who are also committed teachers this encyclopedia of how and what in teaching economics covers everything There is nothing else like it and it should be required reading for anyone starting a teaching career and for anyone who has been teaching for fewer than 50 years Daniel S Hamermesh University of Texas Austin US The International Handbook on Teaching and Learning Economics provides a comprehensive resource for instructors and researchers in economics both new and experienced This wide ranging collection is designed to enhance student learning by helping economic educators learn more about course content pedagogic techniques and the scholarship of the teaching enterprise The internationally renowned contributors present an exhaustive compilation of accessible insights into major research in economic education across a wide range of topic areas including Pedagogic practice teaching techniques technology use assessment contextual techniques and K 12 practices Research findings principles courses measurement factors influencing student performance evaluation and the scholarship of teaching and learning Institutional administrative issues faculty development the undergraduate and graduate student and international perspectives Teaching enhancement initiatives foundations organizations and workshops Grounded in research and covering past and present knowledge as well as future challenges this detailed compendium of economics education will prove an invaluable reference tool for all involved in the teaching of economics graduate students new teachers lecturers faculty researchers chairs deans and directors Time Series Econometrics John D. Levendis, 2023-12-23 Revised and updated for the second edition this textbook allows students to work through classic texts in economics and finance using the original data and replicating their results In this book the author rejects the theorem proof approach as much as possible and emphasizes 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 Newbold and Nelson Plosser Readers will learn about structural breaks by replicating papers by Perron and Zivot Andrews They then turn to models of conditional volatility replicating papers by Bollerslev Students estimate multi equation models such as vector autoregressions and vector error correction mechanisms replicating the results in influential papers by Sims and Granger Finally students estimate static and dynamic panel data models replicating papers by Thompson and Arellano Bond 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 How to best start learning time series econometrics Learning by doing This is the

ethos of this book What makes this book useful is that it provides numerous worked out examples along with basic concepts It is a fresh no nonsense practical approach that students will love when they start learning time series econometrics I recommend this book strongly as a study guide for students who look for hands on learning experience Professor Sokbae Simon Lee Columbia University Co Editor of Econometric Theory and Associate Editor of Econometrics Journal

The Practice of Econometric Theory Charles G. Renfro, 2009-06-29 Econometric theory as presented in textbooks and the econometric literature generally is a somewhat disparate collection of findings Its essential nature is to be a set of demonstrated results that increase over time each logically based on a specific set of axioms or assumptions yet at every moment rather than a finished work these inevitably form an incomplete body of knowledge The practice of econometric theory consists of selecting from applying and evaluating this literature so as to test its applicability and range The creation development and use of computer software has led applied economic research into a new age This book describes the history of econometric computation from 1950 to the present day based upon an interactive survey involving the collaboration of the many econometricians who have designed and developed this software It identifies each of the econometric software packages that are made available to and used by economists and econometricians worldwide

Economics Reading Lists, Course Outlines, Exams, Puzzles & Problems: Econometrics reading lists, 1995

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

Econometric Analysis of Model Selection and Model Testing M. Ishaq Bhatti, Hatem Al-Shanfari, 2017-03-02 In recent years econometricians have examined the problems of diagnostic testing specification testing semiparametric estimation and model selection In addition researchers have considered whether to use model testing and model selection procedures to decide the models that best fit a particular dataset This book explores both issues with application to various regression models including the arbitrage pricing theory models It is ideal as a reference for statistical sciences postgraduate students academic researchers and policy makers in understanding the current status of model building and testing techniques

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