Final Exam in Econometrics

ECON 837

April 15th, 2015

• Part 1 [20 Points]: solve both exercises.

Exercise 1 [10]

Consider the linear regression model

$$y_i = x_i'\theta_0 + u_i, \quad i = 1, \dots, n$$
 (1)

where $x_i \in \mathbb{R}^d$ can be partitioned into 2 subvectors $x_i^{(1)} \in \mathbb{R}^{d_1}$ and $x_i^{(2)} \in \mathbb{R}^{d_2}$ ($d = d_1 + d_2$) with corresponding coefficient vectors $\theta_{0,1}$ and $\theta_{0,2}$. Suppose that the object of principal interest is $\theta_{0,1}$. Suppose that x_i is endogenous and that a vector of mean zero instruments $z_i \in \mathbb{R}^{d_i}$ is available such that $E[z_i u_i] = 0$ and for which also $E[z_i x_i^{(2)^i}] = 0$. Assume iid data.

If $d_1 \le d_z < d$ then $E[z_i x_i']$ cannot possibly have full column rank because the linear system is underidentified. Moreover, z_i is uncorrelated with the regressors $x_i^{(2)}$.

Show that $\theta_{0,1}$ can nevertheless be consistently estimated by proposing a consistent estimator $\hat{\theta}_1$ of $\theta_{0,1}$ and derive its limit distribution.

Exercise 2 [10]

Questions (a) and (b) are independent.

(a) Let $X_1, X_2, ..., X_n$ be an iid random sample from a population with mean μ and variance σ^2 . Find an unbiased estimator for μ^2 . Explain your reasoning carefully.

(b) Let X₁, X₂,... be a random sequence that converges in probability to a constant a. Assume that Pr [X_i > 0] = 1 for all i. Without using the Slutsky Theorem, show that the random sequence Y₁, Y₂,... defined by Y_i = √X_i converges in probability to √a.

Final Exam Econometrics

Garry D. A. Phillips, Elias Tzavalis

Final Exam Econometrics:

Econometrics K. Nirmal Ravi Kumar, 2020-05-19 This book harbors an updated and standard material on the various aspects of Econometrics It covers both fundamental and applied aspects and is intended to serve as a basis for a course in Econometrics and attempts at satisfying a need of postgraduate and doctoral students of Economics It is hoped that this book will also be worthwhile to teachers researchers professionals etc Note T F does not sell or distribute the Hardback in India Pakistan Nepal Bhutan Bangladesh and Sri Lanka **Econometric Analysis of Cross Section and Panel Data, second** edition Jeffrey M. Wooldridge, 2010-10-01 The second edition of a comprehensive state of the art graduate level text on microeconometric methods substantially revised and updated The second edition of this acclaimed graduate text provides a unified treatment of two methods used in contemporary econometric research cross section and data panel methods By focusing on assumptions that can be given behavioral content the book maintains an appropriate level of rigor while emphasizing intuitive thinking The analysis covers both linear and nonlinear models including models with dynamics and or individual heterogeneity In addition to general estimation frameworks particular methods of moments and maximum likelihood specific linear and nonlinear methods are covered in detail including probit and logit models and their multivariate Tobit models models for count data censored and missing data schemes causal or treatment effects and duration analysis Econometric Analysis of Cross Section and Panel Data was the first graduate econometrics text to focus on microeconomic data structures allowing assumptions to be separated into population and sampling assumptions This second edition has been substantially updated and revised Improvements include a broader class of models for missing data problems more detailed treatment of cluster problems an important topic for empirical researchers expanded discussion of generalized instrumental variables GIV estimation new coverage based on the author's own recent research of inverse probability weighting a more complete framework for estimating treatment effects with panel data and a firmly established link between econometric approaches to nonlinear panel data and the generalized estimating equation literature popular in statistics and other fields New attention is given to explaining when particular econometric methods can be applied the goal is not only to tell readers what does work but why certain obvious procedures do not The numerous included exercises both theoretical and computer based allow the reader to extend methods covered in the text and discover new insights Economics Reading Lists, Course Outlines, Exams, Puzzles & Problems: Econometrics reading lists, 1995 **Annual Catalogue** United States Air Force Curriculum Handbook with General Information Concerning ... for the United States Air Force Academy Academy, 1985 United States Air Force Academy, 2004 A Guide to Modern Econometrics Marno Verbeek, 2008-05-27 This revised and updated edition of A Guide to Modern Econometrics continues to explore a wide range of topics in modern econometrics by focusing on what is important for doing and understanding empirical work It serves as a guide to alternative techniques with the emphasis on the intuition behind the approaches and their practical relevance New material includes Monte Carlo studies

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wavelets The Palgrave Companion to Harvard Economics Robert A. Cord, 2024-07-05 Harvard University has been and continues to be one of the most important global centres for economics With three chapters on themes in Harvard economics and 41 chapters on the lives and work of Harvard economists these two volumes show how economics became established at the University how it produced some of the world's best known economists including Joseph Schumpeter Wassily Leontief and John Kenneth Galbraith and how it remains a global force for the very best in teaching and research in economics With original contributions from a stellar cast the volumes provide economists especially those interested in macroeconomics and the history of economic thought with an in depth analysis of Harvard economics 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

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