Economics 8828

Prof. Xiaodong Liu

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Course Description:

This is a second-year graduate econometrics course that focuses on the analysis of individual-level data. It covers econometric methods based on the general linear and nonlinear models for cross-section data. The first half of this course studies the M-estimators and their application in discrete choice models and multivariate models. The second half of the course introduces spatial and social network models.

Prerequisite: Econ 7828.

Text: Davidson, R. and J. G. Mackinnon, 2004, Econometric Theory and Methods.

Assessment:

There will be a midterm exam, a final exam, and periodic problem sets.

- 3. Discrete and Limited Dependent Variables
 - a. Binary response models
 - b. Models for unordered multiple choices
 - c. Models for count data
 - d. Models for censored and truncated data
 - e. Sample selectivity
 - f. Duration models
- 4. Multivariate Models
 - a. Seemingly unrelated linear regressions
 - b. Systems of nonlinear regressions
 - c. Linear simultaneous equations models
 - d. Nonlinear simultaneous equations models
- 5. Spatial and Social Network Models
 - a. Spatial autoregressive models
 - b. IV, GMM and ML estimation
 - c. Social interaction models
 - d. Network formation models

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the semester so that I may make appropriate changes to my records. For more information, see the policies on <u>classroom behavior</u> and the <u>Student Code of Conduct</u>.

Honor Code

All students enrolled in a University of Colorado Boulder course are responsible for knowing and adhering to the Honor Code. Violations of the policy may include: plagiarism, cheating, fabrication, lying, bribery, threat, unauthorized access to academic materials, clicker fraud, submitting the same or similar work in more than one course without permission from all course instructors involved, and aiding academic dishonesty. All incidents 4(nr)3odit14(m)-2(r)-1(e)m4(nr)3(4(nr)3o)2(l)no4(nt)--2(o4(nt)--2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2(nt)-2[(t)-(hone)@)-2