A Stochastic Frontier Analysis of Technical Efficiency Of

A Stochastic Frontier Analysis of Output Level and Growth in Poland and Western Economies

Universal Banks, Ownership and Efficiency

Efficiency of Financial Institutions

Stochastic Frontier Analysis

Universal Banks, Ownership and Efficiency - a Stochastic Frontier Analysis of the German Banking System

Measuring Technical Efficiency in the National Health Service

An Introduction to Efficiency and Productivity Analysis

A Practitioner's Guide to Stochastic Frontier Analysis Using Stata

Cost and Technical Efficiency of German Hospitals

Internal Markets and Health Care Efficiency

Productive Performance of Chinese Enterprises

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Estimating Efficiency in the Hospital Sector

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Stochastic Frontier Analysis in Higher Education: A Systematic Review

Essays on Estimating Efficiency and Productivity Using Stochastic Frontier Analysis
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Universal Banks, Ownership and Efficiency - a Stochastic Frontier Analysis of the German Banking System

This book provides practitioners with a step-by-step guide on how to conduct efficiency analysis using the stochastic frontier approach.

Measuring Technical Efficiency in the National Health Service

This book develops econometric techniques for the estimation of production, cost and profit frontiers, and for the estimation of the technical and economic efficiency with which producers approach these frontiers. Since these frontiers envelop rather than intersect the data, and since the authors continue to maintain the traditional econometric belief in the presence of external forces contributing to random statistical noise, the work is titled Stochastic Frontier Analysis. Hb ISBN (2000): 0-521-48184-8

An Introduction to Efficiency and Productivity Analysis

A Practitioner's Guide to Stochastic Frontier Analysis Using Stata

The purpose of this dissertation is to apply stochastic frontier analysis methodology to the study of efficiency and productivity in industry and in education. It is comprised of three separate studies employing stochastic frontier analysis. First, stochastic frontier analysis is used to study technical efficiency in Indian industry and its impact on India's recent economic growth. The Indian economy has sustained a consistently high rate of growth since initiating economic reforms in the early 1990's. This encouraging growth episode has the
rest of the world watching their economic progress closely. This study examines the role of industrial productivity and efficiency in the post reform Indian economy by using the stochastic frontier production function model over the period 1998 through 2004. We find that industry in India has moved closer to the production frontier and the gap between the states with the highest and lowest technical efficiency in industry has narrowed across time. Most of the growth in industrial output is attributed to total factor productivity. As Indian industry approaches the production frontier, growth will necessarily require further technological innovation and/or increasing input resources. In the second study, efficiency of public education in Illinois is estimated. Public education in the United States has received a great deal of attention from both constituents and policy makers alike over the past thirty years. Identifying less efficient school districts and examining the sources of inefficiency has important policy implications. School districts might improve efficiency by managing educational resources differently. In this study, we estimate technical efficiency for all three types of school districts in the state of Illinois K-12 public education system. Technical efficiency in the Illinois school system averaged 90% for unit school districts, 85% for elementary school districts, and 82% for high school districts. Possible factors associated with inefficiency in Illinois school districts are also investigated. The percentage of student enrollment that qualifies as low income and the size of the school district are positively related to inefficiency. School districts that have a larger percentage of teachers with advanced degrees are more efficient. Having a lower ratio of students per administrator in a school district increases technical efficiency. The final study analyzes efficiency among schools within a particular school district. Efficiency of public high schools in the City of Chicago School District is estimated. Technical efficiency of Chicago public high schools averaged 72%. We also investigate possible factors associated with inefficiency. The percentage of student enrollment that is chronically truant, mobility rate, and percentage of nonwhite students are all positively related to inefficiency. Schools with higher parental involvement are more efficient. Larger high schools display greater technical efficiency than smaller high schools.

Cost and Technical Efficiency of German Hospitals

Internal Markets and Health Care Efficiency

The deregulation of the electricity industry is currently on the political agenda in many countries. In most countries, the deregulation of the sector is combined
with a (re-) regulation of the electricity networks in most of the countries. In many countries incentive-based regulation - e.g. price-cap regulation, yardstick regulation - was introduced to promote efficiency improvements in electricity networks. However, with information asymmetry between regulator and network owners, companies who are subject to an incentive-based regulation will be able to obtain an information rent. Benchmarking can help to address this regulator concern that it does not have good information about the scope for a company to make cost efficiencies (an asymmetry of information). In this paper, we analyze the costs structure of Swiss electricity distribution network operators with respect to cost and scale efficiency of the industry. A stochastic frontier model is applied to estimate the average costs of efficient network operators as a benchmark for the industry.

**Productive Performance of Chinese Enterprises**

**Using Stochastic Frontier Analysis for the Access Price Regulation of Electricity Networks**

**Stochastic Frontier Analysis**

**The Comparison of Stochastic Frontier Analysis with Panel Data Models**

**Estimating Efficiency in the Hospital Sector**

From the idea of efficiency raised by Koopmans in 1951, and the panel data first introduced into the efficiency analysis by Pitt and Lee (1981) and Schmidt and Sickles (1984), the techniques of stochastic frontier analysis are fast developed and the applications of stochastic frontier are widely used in different areas, such as education, industry and hospital. But most researchers focus on only one aspect, either the development of new models or empirical applications. This thesis attempts to fill the gap to get a general idea of the properties of different panel data stochastic frontier models, on both statistical aspects and economic aspects, by the comparison of different models applied to different production applications. The thesis is also attempt to shed light on
whether particular panel data stochastic frontier models are better suited to different data sets. The models selected capture the simplest situation, with no heterogeneity or heteroscedasticity, and complicated ones, with exogenous variables included in the models. Not only the classical models, such as the Pitt and Lee (1981) and Battese and Coelli (1992.1995), but also the new developed models, such as the latent class model and fixed management model are detected in the thesis. On the economic aspect, the data selected captures both microeconomic and macroeconomic, with the application to the World GDP and the Italian manufacturing industry. The results show that: the panel data stochastic frontier models perform better on the microeconomic level than on the macroeconomic level; the classical models perform better than the new developed ones; some panel data stochastic frontier models make ideal assumptions but the requirements to the dataset are hard to achieve; that the influence from the exogenous variables is quite strong.

Productivity and Efficiency Analysis of Two East Asian "tigers"

Stochastic Frontier Analysis

Efficiency Analysis details the important econometric area of efficiency estimation, both past approaches as well as new methodology. There are two main camps in efficiency analysis: that which estimates maximal output and attributes all departures from this as inefficiency, known as Data Envelopment Analysis (DEA), and that which allows for both unobserved variation in output due to shocks and measurement error as well as inefficiency, known as Stochastic Frontier Analysis (SFA). This volume focuses exclusively on SFA. The econometric study of efficiency analysis typically begins by constructing a convoluted error term that is composed on noise, shocks, measurement error, and a one-sided shock called inefficiency. Early in the development of these methods, attention focused on the proposal of distributional assumptions which yielded a likelihood function whereby the parameters of the distributional components of the convoluted error could be recovered. The field evolved to the study of individual specific efficiency scores and the extension of these methods to panel data. Recently, attention has focused on relaxing the stringent distributional assumptions that are commonly imposed, relaxing the functional form assumptions commonly placed on the underlying technology, or some combination of both. All told exciting and seminal breakthroughs have occurred in this literature, and reviews of these methods are needed to effectively detail the state of the art. The generality of SFA is such that the study of efficiency
has gone beyond simple application of frontier methods to study firms and appears across a diverse set of applied milieus. This review should appeal to those outside of the efficiency literature seeking to learn about new methods which might assist them in uncovering phenomena in their applied area of interest.

**Stochastic Frontier Analysis by Means of Maximum Likelihood and the Method of Moments**

**The Efficiency Cost of the Kafala in Dubai**

**A Bayesian Analysis of Dynamic Stochastic Frontier Models**

**Efficiency and Structural Changes in Transition**

We show that investment under financing constraints can be modeled as a one-sided deviation from a frictionless investment level, and that effects of financing constraints can be identified and quantified by imposing a distributional assumption on the effects. Panel data on Taiwanese manufacturing firms between 1989 and 1996 are used in the estimation. This period chronicles important financial reforms in the Taiwanese markets, thus providing a unique opportunity to test the financing constraint hypothesis. Estimation results show that cash flow not only have the first order effect of reducing the level of constraints, but also has the second order effect of reducing the variance of the constraints. The use of the quantitative measures of financing constraints in the post-estimation analysis yields two interesting findings: (1) Some of the sorting criteria used in the literature do not have significant and monotonic relationships with the degrees of financing constraint, resulting in problematic sample separations. (2) The effects of financial liberalization in Taiwan are such that the investment efficiency improved over time for a typical firm, and the improvement was particularly large for smaller firms.

**Application of Stochastic Frontier Model on Agriculture**
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**Efficiency Analysis**

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**Determinants of Technical Efficiency in Oklahoma Schools**

**Using Stochastic Frontier Analysis for the Access Price Regulation of Electricity Networks**

Softcover version of the second edition Hardcover. Incorporates a new author, Dr. Chris O'Donnell, who brings considerable expertise to the project in the area of performance measurement. Numerous topics are being added and more applications using real data, as well as exercises at the end of the chapters. Data sets, computer codes and software will be available for download from the web to accompany the volume.

**Firm Behaviour and Investor Choice**

**The Efficiency of German Public Theaters**

**Stochastic Frontier Analysis Under Regression Discontinuity**
Design

*A Stochastic Frontier Analysis for Energy and Carbon Dioxide Emission Efficiencies of the Baltic Sea Countries*

Cost Efficiency in Network Industries

"A Practitioner's Guide to Stochastic Frontier Analysis Using Stata provides practitioners in academia and industry with a step-by-step guide on how to conduct efficiency analysis using the stochastic frontier approach. The authors explain in detail how to estimate production, cost, and profit efficiency and introduce the basic theory of each model in an accessible way, using empirical examples that demonstrate the interpretation and application of models. This book also provides computer code, allowing users to apply the models in their own work, and incorporates the most recent stochastic frontier models developed in academic literature. Such recent developments include models of heteroscedasticity and exogenous determinants of inefficiency, scaling models, panel models with time-varying inefficiency, growth models, and panel models that separate firm effects and persistent and transient inefficiency. Immensely helpful to applied researchers, this book bridges the chasm between theory and practice, expanding the range of applications in which production frontier analysis may be implemented"--

*Posterior Analysis of Stochastic Frontier Models Using Gibbs Sampler*

*A Stochastic Frontier Analysis of Financing Constraints on Investment*

Stochastic Frontier Analysis of New Zealand's Manufacturing Industries

Stochastic Frontier Analysis in Higher Education: A Systematic
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*Essays on Estimating Efficiency and Productivity Using Stochastic Frontier Analysis*

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