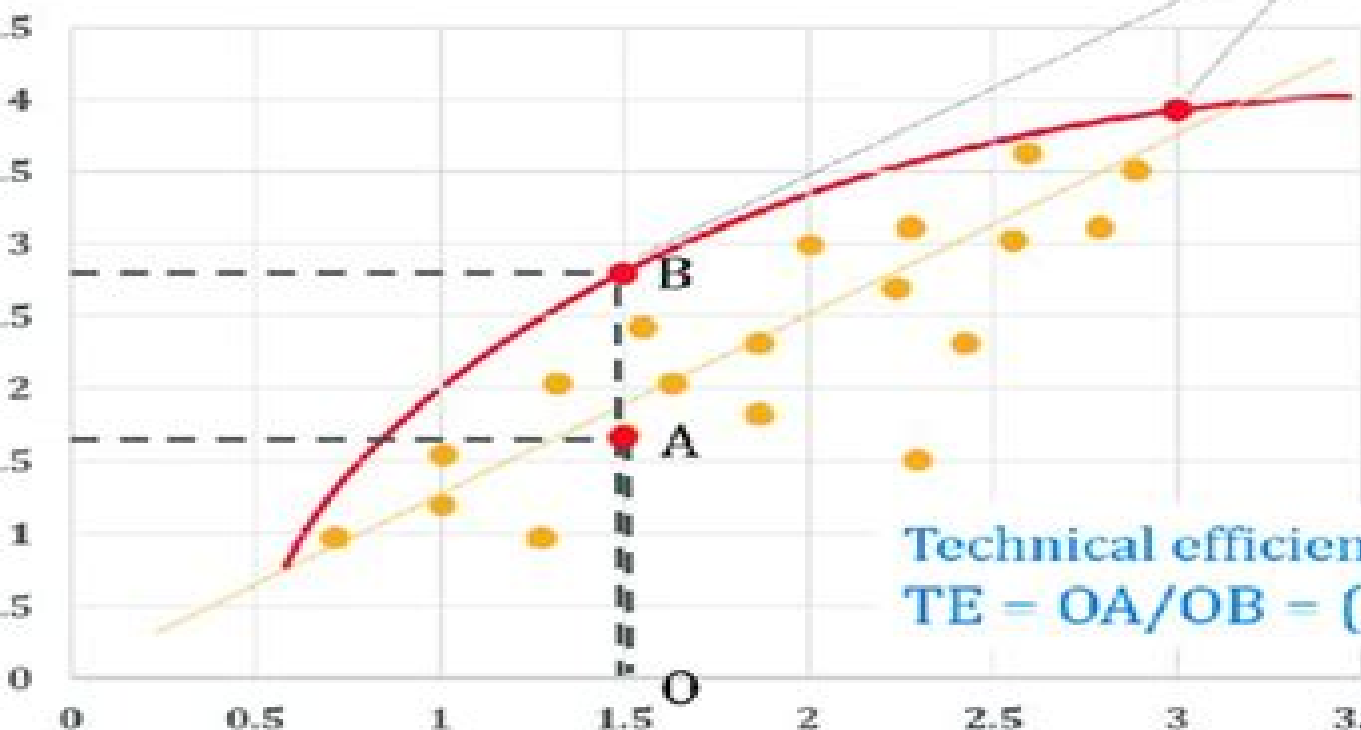


Method1. SFA (stochastic frontier analysis)

$$\text{Efficiency} = \frac{Y}{X}$$

$$\frac{Y}{X} = \frac{(y_1 \times j_1) + (y_2 \times j_2) + \dots (y_j \times j_j) + \epsilon}{(x_1 \times i_1) + (x_2 \times i_2) + \dots (x_i \times i_i) + \epsilon}$$

out



Frontier = 100%

Frontier line

Technical efficiency means that the score output from a given

input

Stochastic Frontier Analysis

Philip Stevens



Stochastic Frontier Analysis:

Stochastic Frontier Analysis Subal C. Kumbhakar, C. A. Knox Lovell, 2003-03-10 Modern textbook presentations of production economics typically treat producers as successful optimizers. Conventional econometric practice has generally followed this paradigm and least squares based regression techniques have been used to estimate production cost, profit and other functions. In such a framework, deviations from maximum output from minimum cost and cost minimizing input demands and from maximum profit and profit maximizing output supplies and input demands are attributed exclusively to random statistical noise. However, casual empiricism and the business press both make persuasive cases for the argument that although producers may indeed attempt to optimize, they do not always succeed. 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*.

Stochastic Frontier Analysis Subal Kumbhakar, 2000 **A Practitioner's Guide to Stochastic Frontier Analysis Using Stata** Subal C. Kumbhakar, Hung-jen Wang (ed), Alan P. Horncastle, 2015-02-02 This book provides practitioners with a step by step guide on how to conduct efficiency analysis using the stochastic frontier approach. *Stochastic Frontier Analysis* Niels Körner, 2010

Stochastic Frontier Analysis by Means of Maximum Likelihood and the Method of Moments Andreas Behr, Sebastian Tente, 2008

Stochastic Frontier Analysis Philip Stevens, 2003 **Stochastic frontier analysis** S. C. Kumbhakar, 2003 **Two-Tier**

Stochastic Frontier Analysis for the Social Sciences Alecos Papadopoulos, Christopher F. Parmeter, 2025-05-14 This textbook provides an up to date treatment of the two tier stochastic frontier model and its applications across the social sciences. It is a cohesive treatise on both the classical methods of estimation and inference and various machinations of the two tier stochastic frontier model as well as more recently developed tools that can shed new insight into why these opposing latent forces which affect economic, sociopolitical and even psychological outcomes exist and to what extent. The text is intended to be a self contained reference for practitioners to rely on when using these methods in their research regardless of field. It includes sixteen empirical applications on diverse topics: labor market, housing market, consumer goods production, economics, sociology, international relations, psychology, public education, healthcare management, environmental policy. The book is accompanied by a dedicated website where 2TSF software code in the R and gretl open source platforms is provided.

Stochastic Frontier Analysis Using Stata Federico Belotti, Silvio Daidone, Giuseppe Ilardi, Vincenzo Atella, 2014 This paper describes `sfcross` and `sfpnl` two new Stata commands for the estimation of cross sectional and panel data stochastic frontier models. `sfcross` extends the official frontier capabilities by including additional models. Greene 2003, Wang 2002 and command functionality such as the possibility to manage complex survey data characteristics. Similarly `sfpnl` allows to

estimate a much wider range of time varying inefficiency models compared to the official xtfreest command including among the others the Cornwell et al 1990 and Lee and Schmidt 1993 models the flexible model of Kumbhakar 1990 the inefficiency effects model of Battese and Coelli 1995 and the true fixed and random effects models developed by Greene 2005a A brief overview of the stochastic frontier literature and a description of the two commands and their options are given and illustrations using simulated and real data are provided

The Comparison of Stochastic Frontier Analysis with Panel Data Models Miao Zhang, 2012 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

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