

# The Econometric Approach to Efficiency Analysis

*William H. Greene*

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# Econometric Approach To Efficiency Analysis

**Tihomir Ancev, M.A. Samad  
Azad, Francesc Hernández-Sancho**

## **Econometric Approach To Efficiency Analysis:**

*The Econometric Approach to Efficiency Analysis* Andrew C. Worthington, Queensland University of Technology. School of Economics and Finance, 1996

*Efficiency Analysis by Production Frontiers* Jati Sengupta, 2012-12-06

Measuring productive efficiency for nonprofit organizations has posed a great challenge to applied researchers today. The problem has many facets and diverse implications for a number of disciplines such as economics, applied statistics, management science, and information theory. This monograph discusses four major areas which emphasize the applied economic and econometric aspects of the production frontier analysis: A Stochastic frontier theory, B Data envelopment analysis, C Clustering and estimation theory, D Economic and managerial applications. Besides containing an up to date survey of the most recent developments in the field, the monograph presents several new results and theorems from my own research. These include but are not limited to the following: 1 interface with parametric theory, 2 minimax and robust concepts of production frontier, 3 game theoretic extension of the Farrell and Johansen models, 4 optimal clustering techniques for data envelopment analysis, and 5 the dynamic and stochastic generalizations of the efficiency frontier at the micro and macro levels. In my research work in this field, I have received great support and inspiration from Professor Abraham Charnes of the University of Texas at Austin, who has basically founded the technique of data envelopment analysis, developed it, and is still expanding it. My interactions with him have been most fruitful and productive. I am deeply grateful to him. Finally, I must record my deep appreciation to my wife and two children for their loving and enduring support. But for their support, this work would not have been completed.

*The Measurement of Productive Efficiency* Harold O. Fried, Shelton S. Schmidt, C. A. Knox Lovell, 1993-04-22

This work focuses on measuring and explaining producer performance. The authors view performance as a function of the state of technology and economic efficiency, with the former defining a frontier relation between inputs and outputs, the former incorporating waste and misallocation relative to this frontier. They show that insights can be gained by allowing for the possibility of a divergence between the economic objective and actual performance, and by associating this inefficiency with causal variables subject to managerial or policy influence. Derived from a series of lectures held on techniques and applications of the three approaches to the construction of production frontiers and measure of efficiency, this work will be an essential reference to scholars of a variety of disciplines who are involved with quantitative methods or policy.

*Efficiency Analysis* Subal Kumbhakar, Christopher F. Parmeter, 2014-12-19

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 of 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

### **Productivity and Efficiency**

**Analysis** William H. Greene, Lynda Khalaf, Robin Sickles, Michael Veall, Marcel-Cristian Voia, 2015-12-29 This proceedings volume examines the state of the art of productivity and efficiency analysis and adds to the existing research by bringing together a selection of the best papers from the 8th North American Productivity Workshop NAPW It also aims to analyze world wide perspectives on challenges that local economies and institutions may face when changes in productivity are observed The volume comprises of seventeen papers that deal with productivity measurement productivity growth dynamics of productivity change measures of labor productivity measures of technical efficiency in different sectors frontier analysis measures of performance industry instability and spillover effects These papers are relevant to academia but also to public and private sectors in terms of the challenges firms financial institutions governments and individuals may face when dealing with economic and education related activities that lead to increase or decrease of productivity The North American Productivity Workshop brings together academic scholars and practitioners in the field of productivity and efficiency analysis from all over the world It is a four day conference exploring topics related to productivity production theory and efficiency measurement in economics management science operations research public administration and related fields The papers in this volume also address general topics as health energy finance agriculture utilities and economic development among others The editors are comprised of the 2014 local organizers program committee members and celebrated guest conference speakers

*Advanced Mathematical Methods for Economic Efficiency Analysis* Pedro Macedo, Victor Moutinho, Mara Madaleno, 2023-06-21 Economic efficiency analysis has received considerable worldwide attention in the last few decades with Stochastic Frontier Analysis SFA and Data Envelopment Analysis DEA establishing themselves as the two dominant approaches in the literature This book by combining cutting edge theoretical research on DEA and SFA with attractive real world applications offers a valuable asset for professors students researchers and professionals working in all branches of economic efficiency analysis as well as those concerned with the corresponding economic policies The book is divided into

three parts the first of which is devoted to basic concepts making the content self contained The second is devoted to DEA and the third to SFA The topics covered in Part 2 range from stochastic DEA to multidirectional dynamic inefficiency analysis including directional distance functions the elimination and choice translating algorithm benefit of the doubt composite indicators and internal benchmarking for efficiency evaluations Part 3 also includes exciting and cutting edge theoretical research on e g robustness nonparametric stochastic frontier models hierarchical panel data models and estimation methods like corrected ordinary least squares and maximum entropy

*An Introduction to Efficiency and Productivity Analysis* Timothy J. Coelli, Dodla Sai Prasada Rao, Christopher J. O'Donnell, George Edward Battese, 2005-12-06 The second edition of this book has been written for the same audience as the first edition It is designed to be a first port of call for people wishing to study efficiency and productivity analysis The book provides an accessible introduction to the four principal methods involved econometric estimation of average response models index numbers data envelopment analysis DEA and stochastic frontier analysis SFA For each method we provide a detailed introduction to the basic concepts give some simple numerical examples discuss some of the more important extensions to the basic methods and provide references for further reading In addition we provide a number of detailed empirical applications using real world data The book can be used as a textbook or as a reference text As a textbook it probably contains too much material to cover in a single semester so most instructors will want to design a course around a subset of chapters For example Chapter 2 is devoted to a review of production economics and could probably be skipped in a course for graduate economics majors However it should prove useful to undergraduate students and those doing a major in another field such as business management or health studies

*New Directions in Productivity Measurement and Efficiency Analysis* Tihomir Ancev, M.A. Samad Azad, Francesc Hernández-Sancho, 2017-06-30 This book explores novel research perspectives on the intersection of environmental natural resource economics and productivity analysis emphasizing the link between productivity and efficiency measurement and environmental impacts The purpose of the book is to present new approaches and methods for measuring environmentally adjusted productivity and efficiency and for incorporating natural resources in standard national accounting practices These methods are applicable in many contexts including air and water pollution climate change green accounting and environmental regulation

*Advanced Robust and Nonparametric Methods in Efficiency Analysis* Cinzia Daraio, Léopold Simar, 2007-04-10 Providing a systematic and comprehensive treatment of recent developments in efficiency analysis this readable book makes available an intuitive yet rigorous presentation of advanced nonparametric and robust methods This flexible toolbox can be used in theories based on the neoclassical theory of production and its alternatives including evolutionary theories The methods are complemented by empirical analysis of three different economic fields scientific research mutual funds industry and the insurance sector The research demonstrates the utility of the toolbox for a wide range of economic issues including the analysis of economies of scale and scope dynamics of age and agglomeration effects trade offs in production and service

activities and explanations of efficiency differentials Of interest to applied economists broadly this book will also be of interest to those focused on Operations Research and or Management Science

**An Introduction to Efficiency and Productivity Analysis** Timothy J. Coelli, Dodla Sai Prasada Rao, Christopher J. O'Donnell, George Edward Battese, 2005-07-22 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

*Productivity and Efficiency Analysis* Christopher J. O'Donnell, 2018-12-12 This book provides a coherent description of the main concepts and statistical methods used to analyse economic performance The focus is on measures of performance that are of practical relevance to policy makers Most if not all of these measures can be viewed as measures of productivity and or efficiency Linking fields as diverse as index number theory data envelopment analysis and stochastic frontier analysis the book explains how to compute measures of input and output quantity change that are consistent with measurement theory It then discusses ways in which meaningful measures of productivity change can be decomposed into measures of technical progress environmental change and different types of efficiency change The book is aimed at graduate students researchers statisticians accountants and economists working in universities regulatory authorities government departments and private firms The book contains many numerical examples Computer codes and datasets are available on a companion website

On the Efficiency and Productivity Analysis of Indonesian Firms, Banks and Provincial Economies Heru Margono, 2004

**The Econometric Approach to Efficiency Measurement** William H. Greene, 1992

Productivity Growth, Technological Progress and Technical Efficiency Change in China Yanrui Wu, 1994

**Economia**, 1996

An Analysis of the Efficiency of Local Supply and Grain Marketing Cooperatives in the Upper Midwest Michael Ray Thomsen, 1998

**Konjunkturpolitik**, 1999

The Impact of Working Time on Employment, Wages and Productivity Thorsten Schank, 2003

*Micro- and Macrodata of Firms* Silvia Biffignandi, 1999-01-21 In industrial countries there is a strong interest in the international comparison of business data regarding productivity efficiency and competitiveness This volume presents methods for the statistical analysis of micro and macrodata of firms and for an international comparison of the aggregates Case studies referring to specific countries play an important role for the development of economic hypotheses that should be tested at the international level

Agrekon, 2001

## The Enigmatic Realm of **Econometric Approach To Efficiency Analysis**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Econometric Approach To Efficiency Analysis** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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