



# Efficiency Analysis By Production Frontiers

**Wolfgang Glänzel, Henk F. Moed, Ulrich  
Schmoch, Mike Thelwall**



## **Efficiency Analysis By Production Frontiers:**

*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.

Production Frontiers Rolf Fare, Shawna Grosskopf, C. A. Knox Lovell, 1994 This book presents a mathematical programming approach to the analysis of production frontiers and efficiency measurement. The authors construct a variety of production frontiers and by measuring distances to them are able to develop a model of efficient producer behaviour and a taxonomy of possible types of departure from efficiency in various environments. Linear programming is used as an analytical and computational technique in order to accomplish this. The approach developed is then applied to modelling producer behaviour. By focusing on the empirical relevance of production frontiers and distances to them and applying linear programming techniques to artificial data to illustrate the type of information they can generate, this book provides a unique study in applied production analysis. It will be of interest to scholars and students of economics and operations research and analysts in business and government.

**Benchmarking for Performance Evaluation** Subhash C. Ray, Subal C. Kumbhakar, Pami Dua, 2015-03-25 This book provides a detailed introduction to the theoretical and methodological foundations of production efficiency analysis using benchmarking. Two of the more popular methods of efficiency evaluation are Stochastic Frontier Analysis (SFA) and Data Envelopment Analysis (DEA), both of which are based on the concept of a production possibility set and its frontier. Depending on the assumed objectives of the decision-making unit, a Production Cost or Profit Frontier is constructed from observed data on input and output quantities and prices. While SFA uses different maximum likelihood estimation techniques to estimate a parametric frontier, DEA relies on mathematical programming to

create a nonparametric frontier Yet another alternative is the Convex Nonparametric Frontier which is based on the assumed convexity of the production possibility set and creates a piecewise linear frontier consisting of a number of tangent hyper planes Three of the papers in this volume provide a detailed and relatively easy to follow exposition of the underlying theory from neoclassical production economics and offer step by step instructions on the appropriate model to apply in different contexts and how to implement them Of particular appeal are the instructions on i how to write the codes for different SFA models on STATA ii how to write a VBA Macro for repetitive solution of the DEA problem for each production unit on Excel Solver and iii how to write the codes for the Nonparametric Convex Frontier estimation The three other papers in the volume are primarily theoretical and will be of interest to PhD students and researchers hoping to make methodological and conceptual contributions to the field of nonparametric efficiency analysis **Springer Handbook of Science and Technology Indicators**

Wolfgang Glänzel, Henk F. Moed, Ulrich Schmoch, Mike Thelwall, 2019-10-30 This handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system Focusing on various aspects of the development and application of indicators derived from data on scholarly publications patents and electronic communications the individual chapters written by leading experts discuss theoretical and methodological issues illustrate applications highlight their policy context and relevance and point to future research directions A substantial portion of the book is dedicated to detailed descriptions and analyses of data sources presenting both traditional and advanced approaches It addresses the main bibliographic metrics and indexes such as the journal impact factor and the h index as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society It also presents and critically discusses various national research evaluation systems Complementing the sections reflecting on the science system the technology section includes multiple chapters that explain different aspects of patent statistics patent classification and database search methods to retrieve patent related information In addition it examines the relevance of trademarks and standards as additional technological indicators The Springer Handbook of Science and Technology Indicators is an invaluable resource for practitioners scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance **Efficiency**

**Measures in the Agricultural Sector** Armando Mendes, Emilian L. D. G. Soares da Silva, Jorge M Azevedo Santos, 2012-12-18 The editors draw on a 3 year project that analyzed a Portuguese area in detail comparing this study with papers from other regions Applications include the estimation of technical efficiency in agricultural grazing systems dairy beef and mixed and specifically for dairy farms The conclusions indicate that it is now necessary to help small dairy farms in order to make them more efficient These results can be compared with the technical efficiency of a sample of Spanish dairy processing firms presented by Magdalena Kapelko and co authors *Handbook of Quantitative Science and Technology*

*Research* Henk F. Moed, Wolfgang Glänzel, Ulrich Schmoch, 2006-02-23 This handbook offers a state of the art overview of quantitative science and technology research It focuses on the development and application of indicators derived from data on scientific or scholarly publications and patents It comprises 34 chapters written by leading specialists in the various sub domains These chapters deal with theoretical and methodological issues illustrate applications and highlight their policy context and relevance Authors present a survey of the research topics they address and show their most recent achievements The 34 chapters are arranged into 5 parts Disciplinary Approaches General Methodology The Science System The Technology System and The Science Technology Interface The Editor s Introduction provides a further specification of the handbook s scope and of the main topics addressed in its chapters This handbook aims at four distinct groups of readers practitioners in the field of science and technology studies research students in this field scientists scholars and technicians who are interested in a systematic thorough analysis of their activities policy makers and administrators who wish to be informed about the potentialities and limitations of the various approaches and about their results **Efficiency and**

**Competitiveness of International Airlines** Almas Heshmati, Jungsuk Kim, 2016-05-18 This book focuses on the factors that support the strengths of international airlines in general and the Asian airline carriers in particular Defining the quality of human capital as the level of education and the competence of airline employees it analyzes the efficiency of 39 airlines in various regions both in terms of production and cost structures It argues that despite Asia s well developed and globally competitive manufacturing sector aided by open market practices its overall service sector still lags far behind more advanced economies As this does not stop Asia based carriers from generally being more efficient than their counterparts in Europe and North America the book investigates how competitiveness analysis of the airline industry can help Asian policymakers better prepare for the liberalization of the service sector given how crucial this aspect is for the future growth of the Asia Pacific region *Efficiency and Competitiveness of International Airlines* offers a valuable resource for policymakers airline employees and researchers and students of microeconomics *Postal and Delivery Innovation in the Digital Economy*

Michael A. Crew, Timothy J. Brennan, 2014-12-12 Worldwide postal and delivery economics is the subject of considerable interest The postal industry s business model is in drastic need of change Notably the European Commission and member states are still wrestling with the problems of implementing liberalization of entry into postal markets addressing digital competition and maintaining the universal service obligation In the United States the Postal Accountability and Enhancement Act of 2006 has perhaps exacerbated some of the problems faced by the United States Postal Service USPS Currently the USPS has serious financial problems because of difficulties it faces in making changes and the failure of the Act to address problems that have been long standing Electronic competition is severe and affects post offices POs worldwide which have been slow to address the threat This book addresses this new reality and includes discussion of how POs may attempt to reinvent themselves Parcels and packets will play a major role in developing new business models for postal operators This

book is of use not only to students and researchers interested in the field but also to postal operators consulting firms utilities regulatory commissions Federal Government Departments and agencies of the European Union and other countries

Advances in Economic Measurement Duangkamon Chotikapanich, Alicia N. Rambaldi, Nicholas Rohde, 2022-10-03 The purpose of this book is to honour D S Prasada Rao and his many outstanding contributions to economic measurement including index number methods for international comparisons of prices real incomes output and productivity stochastic approaches to index numbers purchasing power parities for the measurement of regional and global inequality and poverty and measurement of income and economic insecurity This book brings together contributions by well known and influential researchers in the field of economic measurement with special focus on topics in productivity measurement Part I income and health inequality inequality of opportunity and measurement of insecurity Part II index number theory and applications to consumer price index numbers international comparisons of prices and real expenditures and housing price index numbers Part III The chapters are authored by eminent researchers including Conchita D Ambrosio Bert Balk Erwin Diewert Robert Hill Robert Inklaar Knox Lovell Robin Sickles Jacques Silber and Marcel Timmer The contributed papers offer in depth reviews of the state of the art in these areas with a focus on the existing methods and applications making the volume an invaluable source for both experienced researchers and new researchers including PhD and other postgraduate students

Business Analytics and Decision Making in Practice Ali Emrouznejad, Panagiotis D. Zervopoulos, Ilhan Ozturk, Dima Jamali, John Rice, 2024-08-27 This book presents selected proceedings of the International Conference on Business Analytics in Practice ICBAP2024 which was held on January 8 11 2024 at the University of Sharjah UAE The book presents advanced modeling and examples to explore the practical applications of business analytics across various industries and domains In addition it dives deep into the world of data driven decision making showcasing real world case studies and best practices to illustrate how organizations can harness the power of analytics to optimize their decision making processes From descriptive analytics to predictive modeling and prescriptive analytics readers will gain valuable insights into the different techniques and methodologies employed in business analytics

Benchmarking Economic Efficiency Jesús T. Pastor, Juan Aparicio, José L. Zofío, 2022-07-12 This book unifies and extends the definition and measurement of economic efficiency and its use as a real life benchmarking technique for actual organizations Analytically the book relies on the economic theory of duality as guiding framework Empirically it shows how the alternative models can be implemented by way of Data Envelopment Analysis An accompanying software programmed in the open source Julia language is used to solve the models The package is a self contained set of functions that can be used for individual learning and instruction The source code associated documentation and replication notebooks are available online The book discusses the concept of economic efficiency at the firm level comparing observed to optimal economic performance and its decomposition according to technical and allocative criteria Depending on the underlying technical efficiency measure economic efficiency can be decomposed multiplicatively or

additively Part I of the book deals with the classic multiplicative approach that decomposes cost and revenue efficiency based on radial distance functions Subsequently the book examines how these partial approaches can be expanded to the notion of profitability efficiency considering both the input and output dimensions of the firm and relying on the generalized distance function for the measurement of technical efficiency Part II is devoted to the recent additive framework related to the decomposition of economic inefficiency defined in terms of cost revenue and profit The book presents economic models for the Russell and enhanced graph Russell measures the weighted additive distance function the directional distance function the modified directional distance function and the Hilder distance function Each model is presented in a separate chapter New approaches that qualify and generalize previous results are also introduced in the last chapters including the reverse directional distance function and the general direct approach The book concludes by highlighting the importance of benchmarking economic efficiency for all business stakeholders and recalling the main conclusions obtained from many years of research on this topic The book offers different alternatives to measure economic efficiency based on a set of desirable properties and advises on the choice of specific economic efficiency models

**PRODUCTION ECONOMICS** Ayodeji Faloye, 2024-12-09 Production Economics Theory Practice and Applications is a comprehensive guide to understanding the fundamental principles that drive the creation of goods and services in an economy Written by Ayodeji Faloye an economist with over 20 years of experience in development economics and econometrics this book delves into the intricacies of production processes offering both theoretical insights and practical applications The book begins with an introduction to the essential concepts of production economics including production functions cost functions and the law of diminishing returns It then progresses to more advanced topics such as production optimization input output analysis and the measurement of productivity With each chapter readers are introduced to key economic theories and their real world implications supported by numerical examples tables and graphs that make complex ideas accessible As the global economy evolves so too does the field of production economics This book addresses contemporary challenges including the impact of technological change globalization and environmental sustainability on production processes Readers will also find discussions on the role of digitalization automation and emerging technologies in shaping the future of production Whether you are a student seeking to build a strong foundation in economics a professional looking to optimize production strategies or a policymaker interested in sustainable economic growth this book offers valuable insights and practical tools It is designed to bridge the gap between academic theory and real world practice making it an essential resource for anyone involved in the production of goods and services Explore the dynamics of production enhance your understanding of economic efficiency and prepare for the future with Production Economics Theory Practice and Applications

Port Economics Kevin Cullinane, Wayne K Talley, 2006-06-22

A port or seaport is a place that provides for the vessel transfer of cargo and passengers to and from waterways and shores Port economics is concerned with the study of the economics of port services Users of port services are those that utilize the

port as part of the transportation process of moving cargo and passengers to and from origin and destination locations Users include transportation carriers such as shipping lines railroads and trucking firms that perform these movements and shippers and individuals that provide the cargo and themselves as passengers to be transported Port users demand port services whereas port service providers such as the port terminal operator supply port services to port users Port economics and shipping economics comprise the branch of economics known as maritime economics This volume provides original contributions to the study of port economics 1 the evolution of port economics 2 economic theories of the port port cost functions and port investment and 3 empirical evidence on the relative efficiency of ports the impact of ports on international maritime transport costs the competitiveness of ports and the impact of deregulation on dockworker wages Provides original contributions to the study of port economics Examines the evolution of port economics economic theories of the port and empirical evidence on the relative efficiency of ports the impact of ports on transport costs and the competitiveness of ports

**Sustainability of Southern African Ecosystems under Global Change** Graham P. von Maltitz, Guy F.

Midgley, Jennifer Veitch, Christian Brümmer, Reimund P. Rötter, Finn A. Viehberg, Maik Veste, 2024-01-05 This open access book about the sustainability of marine and terrestrial ecosystems in southern Africa provides a synthesis of the research program Science Partnerships for the Adaptation to Complex Earth System Processes SPACES II 2018 2022 It addresses the scientific social and economic issues related to climate change its potential impacts on the various ecosystems adaptations and management interventions for enhancing systems resilience in Southern Africa It is written by numerous scientists from African states and Germany and summarizes the latest research findings which are of great relevance for a better understanding of climate change impacts adaptations and vulnerabilities as well as for developing management options and policy options to reduce the associated risks This is crucial considering that the projected African population increase is exceptional Furthermore climate change is assumed to hit southern Africa extremely hard with a significant increase in extreme events and the frequency of severe droughts heat waves and flooding Southern Africa hosts a high variety of ecosystems which belongs to important biodiversity hotspots for unique flora and fauna The surrounding oceans form in turn a bottle neck within the ocean's global thermohaline circulation act as a still poorly understood carbon sink and source and play an important role for fisheries as they are highly productive Considering these important aspects the book is an important interdisciplinary contribution to the scientific literature and will find a wide readership The book is aimed at students teachers and scientists in the fields of terrestrial and marine ecology environmental nature and landscape planning agriculture environmental and resource management biodiversity and nature conservation as well as scientists and representatives in specialised authorities and associations nature conservationists and policy makers of related disciplines

**Efficiency Measurement in Health and Health Care** Bruce Hollingsworth, Stuart J. Peacock, 2008-02-07 Health and

efficiency concepts Efficiency measurement techniques Measuring efficiency in health services Application of efficiency



measurement in health services Advanced applications and recent developments Future directions *Coronavirus Disease (COVID-19): Socio-Economic Systems in the Post-Pandemic World: Design Thinking, Strategic Planning, Management, and Public Policy* Andrzej Klimczuk, Eva Berde, Delali A. Dovie, Magdalena Klimczuk-Kochańska, Gabriella Spinelli, 2022-11-25

Abstract On 11 March 2020 the World Health Organization declared a pandemic of the COVID 19 coronavirus disease that was first recognized in China in late 2019 Among the primary effects caused by the pandemic there was the dissemination of health preventive measures such as physical distancing travel restrictions self isolation quarantines and facility closures This includes the global disruption of socio economic systems including the postponement or cancellation of various public events e g sporting cultural or religious supply shortages and fears of the same schools and universities closure evacuation of foreign citizens a rise of unemployment changes in the international aid schemes misinformation and incidents of discrimination toward people affected by or suspected of having the COVID 19 disease The pandemic has brought to the fore unpreparedness in critical areas that require attention amid prospects and challenges Moreover considerable reorganization efforts Economics for Fisheries Management R. Quentin Grafton, James Kirkley, Dale Squires, 2017-03-02 Many of the world s fisheries face major challenges including overfishing overcapacity and low returns Using recent developments in microeconomic theory and with numerous case studies and examples this book shows how to measure efficiency productivity profitability capacity of fishing fleets and how to improve fisheries management The book will prove invaluable to researchers students and professionals interested in understanding the problems in fisheries and how they may be overcome

*Incentives and Performance* Isabell M. Welpe, Jutta Wollersheim, Stefanie Ringelhan, Margit Osterloh, 2014-11-07 This book contributes to the current discussion in society politics and higher education on innovation capacity and the financial and non financial incentives for researchers The expert contributions in the book deal with implementation of incentive systems at higher education institutions in order to foster innovation On the other hand the book also discusses the extent to which governance structures from economy can be transferred to universities and how scientific performance can be measured and evaluated This book is essential for decision makers in knowledge intensive organizations and higher educational institutions dealing with the topic of performance management **The Econometrics of Panel Data** László Mátyás, Patrick Sevestre, 2013-12-01

The aim of this volume is to provide a general overview of the econometrics of panel data both from a theoretical and from an applied viewpoint Since the pioneering papers by Edwin Kuh 1959 Yair Mundlak 1961 Irving Hoch 1962 and Pietro Balestra and Marc Nerlove 1966 the pooling of cross sections and time series data has become an increasingly popular way of quantifying economic relationships Each series provides information lacking in the other so a combination of both leads to more accurate and reliable results than would be achievable by one type of series alone Over the last 30 years much work has been done investigation of the properties of the applied estimators and test statistics analysis of dynamic models and the effects of eventual measurement errors etc These are just some of the problems

addressed by this work. In addition, some specific difficulties associated with the use of panel data such as attrition, heterogeneity, selectivity bias, pseudo panels, etc. have also been explored. The first objective of this book, which takes up Parts I and II, is to give as complete and up-to-date a presentation of these theoretical developments as possible. Part I is concerned with classical linear models and their extensions. Part II deals with nonlinear models and related issues: logit and probit models, latent variable models, duration and count data models, incomplete panels and selectivity bias, point processes, and simulation techniques.

A Companion to Theoretical Econometrics Badi H. Baltagi, 2008-04-15

A Companion to Theoretical Econometrics provides a comprehensive reference to the basics of econometrics. This companion focuses on the foundations of the field and at the same time integrates popular topics often encountered by practitioners. The chapters are written by international experts and provide up-to-date research in areas not usually covered by standard econometric texts. Focuses on the foundations of econometrics. Integrates real world topics encountered by professionals and practitioners. Draws on up-to-date research in areas not covered by standard econometrics texts. Organized to provide clear, accessible information and point to further readings.

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