

An Introduction to Efficiency and Productivity Analysis

Second Edition

Timothy J. Coelli, D.S. Prasada Rao
Christopher J. O'Donnell
and George E. Battese

 Springer

Introduction To Efficiency And Productivity Analysis

John W. Kensinger



Introduction To Efficiency And Productivity Analysis:

An Introduction to Efficiency and Productivity Analysis Timothy J. Coelli, Dodla Sai Prasada Rao, George Edward Battese, 1997-11-30 An Introduction to Efficiency and Productivity Analysis is designed as a primer for anyone seeking an authoritative introduction to efficiency and productivity analysis It is a systematic treatment of four relatively new methodologies in Efficiency Production Analysis a Least Squares Econometric Production Models b Total Factor Productivity TFP Indices c Data Envelopment Analysis DEA and d Stochastic Frontiers Each method is discussed thoroughly First the basic elements of each method are discussed using models to illustrate the method s fundamentals and second the discussion is expanded to treat the extensions and varieties of each method s uses Finally one or more case studies are provided as a full illustration of how each methodology can be used In addition all four methodologies will be linked in the book s presentation by examining the advantages and disadvantages of each method and the problems to which each method can be most suitably applied The book offers the first unified text presentation of methods that will be of use to students researchers and practitioners who work in the growing area of Efficiency Productivity Analysis The book also provides detailed advice on computer programs which can be used to calculate the various measures This involves a number of presentations of computer instructions and output listings for the SHAZAM TFPIP DEAP and FRONTIER computer programs 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 **An Introduction to Efficiency and Productivity Analysis** ,2005

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 *Efficiency and Productivity Growth* Fotios Pasiouras, 2013-03-21 An authoritative introduction to efficiency and productivity analysis with applications in both the banking and finance industry In light of the recent global financial crisis several studies have examined the efficiency of financial institutions A number of open questions remain and this book reviews recent issues and state of the art techniques in the assessment of the efficiency and productivity of financial institutions Written by an international team of experts the first part of the book links efficiency with a variety of topics like Latin American banking market discipline and governance economics of scale off balance sheet activities productivity of foreign banks mergers and acquisitions and mutual fund ratings The second part of the book compares existing techniques and state of the art techniques in the bank efficiency literature including among others network data envelopment analysis and quantile regression The book is suitable for academics and professionals as well as postgraduate research students working in banking and finance *Efficiency and Productivity Growth* Provides an authoritative introduction to efficiency and productivity analysis with applications in both the banking and mutual funds industry such as efficiency of Asian banks cooperatives and not for profit credit associations Explores contemporary research issues in the area of efficiency and productivity measurement in the financial sector Evaluates the most suitable approaches to selecting inputs and outputs as well as selecting the most efficient techniques such as parametric and non parametric to estimate the models *Handbook on Data Envelopment Analysis* William W. Cooper, Lawrence M. Seiford, Joe Zhu, 2006-04-11 Data Envelopment Analysis DEA is a relatively new data oriented approach for evaluating the performances of a set of entities called Decision Making Units DMUs which convert multiple inputs into multiple outputs DEA has been used in evaluating the performances of many different kinds of entities engaged in many different kinds of activities in many different contexts It has opened up possibilities for use in cases which have been resistant to other approaches because of the complex and often unknown nature of the relations between the multiple inputs and outputs involved in many of these activities which are often reported in non commensurable units DEA has also been used to supply new insights into activities and entities that have previously been evaluated by other methods This handbook is intended to represent a milestone in the progression of DEA Written by experts who are often major contributors to the topics to be covered it includes a comprehensive review and discussion of basic DEA models extensions to the basic DEA methods and a collection of DEA applications in the areas of banking education sports retail health care and a review of current DEA software technology This handbook's chapters are organized into three categories i basic DEA models concepts and their extensions ii DEA applications and iii xii Preface DEA software packages The first category consists of eleven chapters *Efficiency in the Public Sector* Kevin J. Fox, 2013-04-17 Regardless of where we live the management of the public sector impacts on our lives Hence we all have an interest one way or another in the achievement of efficiency and productivity improvements in the activities of the public sector For a

government agency that provides a public service striving for unreasonable benchmark targets for efficiency may lead to a deterioration of service quality along with an increase in stress and job dissatisfaction for public sector employees Slack performance targets may lead to gross inefficiency poor quality of service and low self esteem for employees In the case of regulation inappropriate policies can lead to unprecedented disasters Examples include the decimation of fish stocks through mismanagement of fisheries and power blackouts through inappropriate restrictions on electricity generators and distributors Efficient taxation policies minimise the tax bill for citizens In all of these cases efficient management is required although it is often unclear how to assess this efficiency In this volume several authors consider various aspects and contexts of performance measurement Hence this volume represents a unique collection of advances in efficiency assessment for the public sector by leading researchers in the field Efficiency in the Public Sector is divided into two sections The first is titled Issues in Public Sector Efficiency Evaluation and comprises of chapters 1 4 The second section is titled Efficiency Analysis in the Public Sector Advances in Theory and Practice This division is somewhat arbitrary in the sense there are significant overlapping themes in both sections However it serves to separate chapters that can be characterised as dealing with broader issues Section I from chapters that can be characterised as focusing on specific theoretical problems and empirical cases Section II

Research Methodology on Data Envelopment Analysis (DEA) Jibendu Kumar Mantri, 2008 Data Envelopment Analysis DEA represents a milestone in the progression of a continuously advancing methodology for data analysis which finds extensive use in industry society and even in education This book is a handy encyclopedia for researchers students and practitioners looking for the latest and most comprehensive references in DEA J K Mantri has specifically selected 22 research papers where DEA is applied in different fields so that the techniques discussed in this book can be used for various applications In A Bibliography of Data Envelopment Analysis 1978 2001 Gabriel Tavares states that DEA is a mathematical programme for measuring performance efficiency of organizations popularly named as decision making units DMU The DMU can be of any kind such as manufacturing units a number of schools banks hospitals police stations firms etc DEA measures the performance efficiency of these kinds of DMUs which share a common characteristic they have a non profit organization where measurement is difficult DEA assumes the performance of the DMU using the concepts of efficiency and productivity which are measured as the ratio of total outputs to total inputs The efficiencies estimated are relative to the best performing DMU which is given a score of 100% The performance of other DMUs varies between 0% and 100%

Airline Efficiency John D. Bitzan, James Peoples, Wesley W. Wilson, 2016-06-10 An efficient air transport system is critical to countries attaining and sustaining healthy economies in an increasingly interconnected world economy This volume 5 of Advances in Airline Economics includes literature surveys and original empirical research examining airline efficiency in the twenty first century

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

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

Efficiency of Health System Units in Africa Kirigia, Jose Muthuri, 2015-03-16 Despite sending huge sums of money on health every year the African region's burden of disease is persistently high Most of the countries in the region are lagging behind in achieving the health related United Nations Millennium Development Goals The African region's dismal health situation has largely been blamed on weakness pertaining to such factors as health leadership and governance service delivery health workforce medicines vaccines and health technologies health information and health system financing that have undermined the capacity of health systems of countries in the region to improve population health without wastage of resources Institutionalising health system efficiency monitoring as a basis for the design and implementation of appropriate policy interventions has been proposed as an effective way of curbing wastage of health system inputs Efficiency of Health System Units in Africa A Data Envelopment Analysis is the first book of its kind on application of the data envelopment analysis technique to examine the efficiency of health system decision making units in Africa The book interlaces lecture notes with research articles and case studies to equip students and practitioners of economics operations research management science and public health with knowledge and skills for undertaking technical efficiency cost efficiency and total factor productivity analyses

A Comparative

Analysis of the Technical Efficiency of Rain-fed and Smallholder Irrigation in Ethiopia Makombe, G., Namara, R., Hagos, F., Awulachew, S. B., Ayana, M., Bossio, D., 2011-08-02 Agriculture is the most significant contributor to Ethiopia's economy. Most of the agricultural production is under rainfed conditions and thus extremely sensitive to rainfall variability. Irrigation development including smallholder irrigation is used by the Ethiopian Government to attempt to mitigate the effects of rainfall variability. In this study, we look at smallholder irrigation: modern and traditional irrigation systems. A detailed description of the cropping patterns is given. The stochastic frontier production function approach is used to estimate technical inefficiency and constraints to production are analyzed. Since the traditional system is found to be efficient but on a lower production frontier, the study shows that significant gains can be made by raising the frontier of the traditional systems and increasing the efficiency of the modern systems. Among the production constraints studied were land preparation, soil fertility, weed control, pests and diseases, soil erosion, input access, and moisture deficiency. The most significant constraints on the irrigated systems were input access and moisture deficiency.

Handbook of Analytical Studies in Islamic Finance and Economics Zamir Iqbal, Tarik Akin, Nabil El Maghrebi, Abbas Mirakhor, 2020-08-10 This handbook offers a unique and original collection of analytical studies in Islamic economics and finance and constitutes a humble addition to the literature on new economic thinking and global finance. The growing risks stemming from higher debt, slower growth, and limited room for policy maneuver raise concerns about the ability and propensity of modern economies to find effective solutions to chronic problems. It is important to understand the structural roots of inherent imbalance, persistence in error patterns, policy and governance failures, as well as moral and ethical failures. Admittedly, finance and economics have their own failures with abstract theory bearing little relation with the real economy, uncertainties and vicissitudes of economic life. Economic research has certainly become more empirical, despite or perhaps because of the lack of guidance from theory. The analytics of Islamic economics and finance may not differ from standard frameworks, methods, and techniques used in conventional economics but may offer new perspectives on the making of financial crises, nature of credit cycles, roots of financial system instability, and determinants of income disparities. The focus is placed on the logical coherence of Islamic economics and finance, properties of Islamic capital markets, workings of Islamic banking, pricing of Islamic financial instruments, and limits of debt financing, fiscal stimulus, and conventional monetary policies, inter alia. Readers with investment, regulatory, and academic interests will find the body of analytical evidence to span many areas of economic inquiry, refuting thereby the false argument that given its religious tenets, Islamic economics is intrinsically narrative, descriptive, and not amenable to testable implications. Thus, the handbook may contribute toward a redefinition of a dismal science in search for an elusive balance between rationality, ethics, and morality, and toward a remodeling of economies based on risk sharing and prosperity for all humanity.

Food Chains: Quality, Safety and Efficiency in a Challenging World George Baourakis, Prodromos Kalaitzis, Konstadinos Mattas, 2014-01-02 Food Chains: Quality, Safety, and

Efficiency in a Challenging World addresses the many issues facing European food producers and other food chain stakeholders who endeavour to improve their competitive position in a highly competitive world food market The Food Chain is one of the main economic pillars in Europe providing employment and opportunities for economic development in rural areas It is therefore imperative to continuously monitor the changes that affect the sector in order to allow stakeholders to respond promptly and effectively to the new market conditions Adjusting to the new market involves new technology globalization demographic and social changes within a challenging market environment In order to adopt these new market parameters food chain stakeholders need to adapt their activities in order to gain in terms of effectiveness and efficiency This book was originally published as a special issue of Food Economics Acta Agricultura Scandinavica Section C *Proceedings of the Third International Conference on Soft Computing for Problem Solving* Millie Pant,Kusum Deep,Atulya Nagar,Jagdish Chand Bansal,2014-07-08 The proceedings of SocProS 2013 serve as an academic bonanza for scientists and researchers working in the field of Soft Computing This book contains theoretical as well as practical aspects of Soft Computing an umbrella term for techniques like fuzzy logic neural networks and evolutionary algorithms swarm intelligence algorithms etc This book will be beneficial for the young as well as experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is very difficult The different areas covered in the proceedings are Image Processing Cryptanalysis Supply Chain Management Newly Proposed Nature Inspired Algorithms Optimization Problems related to Medical and Health Care Networking etc Performance Analysis of the Indian Pharmaceutical Industry Chandrima Chakraborty,Dipyaman Pal,2025-02-03 Chakraborty and Pal examine the import and export of Indian medicines to understand the place of the industry on a global scale and assess what can be done to become more competitive The international comparison of this study will appeal and be useful for researchers industry professionals and policy makers

Evaluating Research Efficiency of Chinese Universities Yongmei Hu,Wenyan Liang,Yipeng Tang,2017-03-16 This book employs the modern econometric approaches such as DEA Malmquist Index and Tobit models to evaluate research effectiveness and productivity of research oriented universities in China On the basis of five year longitudinal data of more than a hundred Project 211 universities this book illustrates the current status of the effectiveness and productivity of research oriented universities demonstrating regional differences exploring dynamic changes and identifying underlying factors Any researcher or policymaker who cares about the recent development in Chinese higher education in the 21st century will benefit from our in depth analyses Global Tensions in Financial Markets John W. Kensinger,2018-03-30 The volume first investigates the impact of macroeconomic variables on equity values in emerging economies as compared with developed economies Next it affirms the efficiency of the Midcontinent Independent System Operator electricity exchange Finally it investigates efforts to stimulate emerging nations around the world *Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency* Ajibesin, Adeyemi Abel,Vajjhala, Narasimha Rao,2024-01-16 In today s highly competitive and

rapidly evolving global landscape the quest for efficiency has become a crucial factor in determining the success of organizations across various industries Data Envelopment Analysis DEA Methods for Maximizing Efficiency is a comprehensive guide that delves into the powerful mathematical tool of DEA is designed to assess the relative efficiency of decision making units DMUs and provides valuable insights for performance improvement This book presents a systematic overview of DEA models and techniques from fundamental concepts to advanced methods showcasing their practical applications through real world examples and case studies Catering to a broad audience this book is designed for students researchers consultants decision makers and enthusiasts in the field of efficiency analysis and performance measurement Consultants and practitioners will gain practical insights for applying DEA in various contexts and decision makers will be equipped to make informed decisions for maximizing efficiency Additionally individuals with a general interest in data analysis and performance measurement will find this book accessible and informative This book covers a wide range of topics including mathematical foundations of DEA DEA models and variations DEA efficiency and productivity measures DEA applications in various industries such as healthcare finance supply chain management environmental management education management and public sector management

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