# Data Envelopment Analysis

Theory and Techniques for Economics and Operations Research

Subhash C. Ray

## Data Envelopment Analysis Theory And Techniques For Economics And Operations Research

Ajibesin, Adeyemi Abel, Vajjhala, Narasimha Rao

#### **Data Envelopment Analysis Theory And Techniques For Economics And Operations Research:**

Data Envelopment Analysis Subhash C. Ray, 2004-06-07 Using the neo classical theory of production economics as the analytical framework this book first published in 2004 provides a unified and easily comprehensible yet fairly rigorous exposition of the core literature on data envelopment analysis DEA for readers based in different disciplines The various DEA models are developed as nonparametric alternatives to the econometric models Apart from the standard fare consisting of the basic input and output oriented DEA models formulated by Charnes Cooper and Rhodes and Banker Charnes and Cooper the book covers developments such as the directional distance function free disposal hull FDH analysis non radial measures of efficiency multiplier bounds mergers and break up of firms and measurement of productivity change through the Malmquist total factor productivity index The chapter on efficiency measurement using market prices provides the critical link between DEA and the neo classical theory of a competitive firm The book also covers several forms of stochastic DEA in Data Envelopment Analysis: Theory, Methodology, and Applications Abraham Charnes, William W. detail Cooper, Arie Y. Lewin, Lawrence M. Seiford, 1995-07-31 This book represents a milestone in the progression of Data Envelop ment Analysis DEA It is the first reference text which includes a comprehensive review and comparative discussion of the basic DEA models The development is anchored in a unified mathematical and graphical treatment and includes the most important modeling ex tensions In addition this is the first book that addresses the actual process of conducting DEA analyses including combining DEA and 1 parametric techniques The book has three other distinctive features It traces the applications driven evolution and diffusion of DEA models and extensions across disciplinary boundaries It includes a comprehensive bibliography to serve as a source of references as well as a platform for further develop ments And finally the power of DEA analysis is demonstrated through fifteen novel applications which should serve as an inspiration for future applications and extensions of the methodology The origin of this book was a Conference on New Uses of DEA in 2 Management and Public Policy which was held at the IC Institute of the University of Texas at Austin on September 27 29 1989 The conference was made possible through NSF Grant SES 8722504 A Charnes and 2 W W Cooper co PIs and the support of the IC Institute Data Envelopment Analysis William W. Cooper, Lawrence M. Seiford, Kaoru Tone, 2007-01-10 This volume systematically details both the basic principles and new developments in Data Envelopment Analysis DEA offering a solid understanding of the methodology its uses and its potential New material in this edition includes coverage of recent developments that have greatly extended the power and scope of DEA and have lead to new directions for research and DEA uses Each chapter accompanies its developments with simple numerical examples and discussions of actual applications The first nine chapters cover the basic principles of DEA while the final seven chapters provide a more advanced Handbook on Data Envelopment Analysis William W. Cooper, Lawrence M. Seiford, Joe Zhu, 2011-08-23 This treatment handbook covers DEA topics that are extensively used and solidly based The purpose of the handbook is to 1 describe and

elucidate the state of the field and 2 where appropriate extend the frontier of DEA research It defines the state of the art of DEA methodology and its uses This handbook is intended to represent a milestone in the progression of DEA Written by experts who are generally major contributors to the topics to be covered it includes a comprehensive review and discussion of basic DEA models which in the present issue extensions to the basic DEA methods and a collection of DEA applications in the areas of banking engineering health care and services The handbook's chapters are organized into two categories i basic DEA models concepts and their extensions and ii DEA applications First edition contributors have returned to update their work The second edition includes updated versions of selected first edition chapters New chapters have been added on different approaches with no need for a priori choices of weights called multipliers that reflect meaningful trade offs construction of static and dynamic DEA technologies slacks based model and its extensions DEA models for DMUs that have internal structures network DEA that can be used for measuring supply chain operations Selection of DEA applications in the service sector with a focus on building a conceptual framework research design and interpreting results Envelopment Analysis in the Financial Services Industry Joseph C. Paradi, H. David Sherman, Fai Keung Tam, 2017-11-21 This book presents the methodology and applications of Data Envelopment Analysis DEA in measuring productivity efficiency and effectiveness in Financial Services firms such as banks bank branches stock markets pension funds mutual funds insurance firms credit unions risk tolerance and corporate failure prediction Financial service DEA research includes banking insurance businesses hedge pension and mutual funds and credit unions Significant business transactions among financial service organizations such as bank mergers and acquisitions and valuation of IPOs have also been the focus of DEA research The book looks at the range of DEA uses for financial services by presenting prior studies examining the current capabilities reflected in the most recent research and projecting future new uses of DEA in finance related applications Research Methods and Applications in Empirical Microeconomics Hashimzade, Nigar, Thornton, Michael A., 2021-11-18 Written in a comprehensive yet accessible style this Handbook introduces readers to a range of modern empirical methods with applications in microeconomics illustrating how to use two of the most popular software packages Stata and R in The Palgrave Handbook of Economic Performance Analysis Thijs ten Raa, William H. microeconometric applications Greene, 2019-12-13 This Handbook takes an econometric approach to the foundations of economic performance analysis The focus is on the measurement of efficiency productivity growth and performance These concepts are commonly measured residually and difficult to quantify in practice In real life applications efficiency and productivity estimates are often quite sensitive to the models used in the performance assessment and the methodological approaches adopted by the analysis The Palgrave Handbook of Performance Analysis discusses the two basic techniques of performance measurement deterministic benchmarking and stochastic benchmarking in detail and addresses the statistical techniques that connect them All chapters include applications and explore topics ranging from the output input ratio to productivity indexes and national statistics

Efficiency Models in Data Envelopment Analysis J. K. Sengupta, B. Sahoo, 2006-10-06 This volume discusses the latest techniques and their economic applications for modern industries like computer pharmaceutical banking and other manufacturing Both econometric and mathematical programming techniques are analyzed so as to develop a synthetic Handbook of Production Economics Subhash C. Ray, Robert G. Chambers, Subal C. Kumbhakar, 2022-06-02 This three volume handbook includes state of the art surveys in different areas of neoclassical production economics Volumes 1 and 2 cover theoretical and methodological issues only Volume 3 includes surveys of empirical applications in different areas like manufacturing agriculture banking energy and environment and so forth Data-Enabled Analytics Joe Zhu, Vincent Charles, 2021-12-16 This book explores the novel uses and potentials of Data Envelopment Analysis DEA under big data These areas are of widespread interest to researchers and practitioners alike Considering the vast literature on DEA one could say that DEA has been and continues to be a widely used technique both in performance and productivity measurement having covered a plethora of challenges and debates within the modelling framework **Advanced Topics in** Inverse Data Envelopment Analysis Mehdi Soltanifar, Mojtaba Ghiyasi, Farhad Hosseinzadeh Lotfi, Mohammadreza Shahriari, 2025-07-11 Advanced Topics in Inverse Data Envelopment Analysis Approaches for Handling Ratio Data explores and tackles the most significant challenges encountered by researchers and practitioners in decision analysis and performance evaluation This book delves into the sophisticated realm of Ratio Data Envelopment Analysis DEA R offering a thorough examination of advanced methodologies practical examples and insights into managing complex problems involving both non negative and negative data Filling crucial gaps in existing literature this comprehensive resource focuses on the emerging field of Inverse DEA R equipping readers with the necessary tools and knowledge to address a wide range of challenging data types This book serves as an essential guide for making informed and efficient decisions guiding researchers and graduate students in computer science applied mathematics industrial engineering and finance navigating the complexities of decision analysis in today s data driven world Offers an in depth exploration of Inverse DEA R models making it an invaluable resource for researchers seeking to understand and apply these advanced techniques Includes numerous practical examples and case studies across different industries demonstrating how Inverse DEA R can be applied to real world scenarios Highlights potential areas for further research and development within Inverse DEA R encouraging readers to explore new avenues and contribute to the advancement of the field 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 Data Science and Productivity Analytics Vincent Charles, Juan Aparicio, Joe Zhu, 2020-05-23 This book includes a spectrum of concepts such as performance productivity operations research econometrics and data science for the practically and theoretically important areas of productivity analysis data envelopment analysis and data science big data Data science is defined as the collection of scientific methods processes and systems dedicated to extracting knowledge or insights from data and it develops on concepts from various domains containing mathematics and statistical methods operations research machine learning computer programming pattern recognition and data visualisation among others Examples of data science techniques include linear and logistic regressions decision trees Na ve Bayesian classifier principal component analysis neural networks predictive modelling deep learning text analysis survival analysis and so on all of which allow using the data to make more intelligent decisions On the other hand it is without a doubt that nowadays the amount of data is exponentially increasing and analysing large data sets has become a key basis of competition and innovation underpinning new waves of productivity growth This book aims to bring a fresh look onto the various ways that data science techniques could unleash value and drive productivity from these mountains of data Researchers working in productivity analysis data envelopment analysis will benefit from learning about the tools available in data science big data that can be used in their current research analyses and endeavours The data scientists on the other hand will also get benefit from learning about the plethora of applications available in productivity analysis data envelopment analysis Introduction to Data Envelopment Analysis and Its Uses William W. Cooper, Lawrence M. Seiford, Kaoru Tone, 2006-03-20 Introduction to Data Envelopment Analysis and Its Uses With DEA Solver Software and References has been carefully designed by the authors to provide a systematic introduction to DEA and its uses as a multifaceted tool for evaluating problems in a variety of contexts The authors have been involved in DEA s development from the beginning William Cooper with Abraham Charnes and Edwardo Rhodes is a founder of DEA Lawrence Seiford and Kaoru Tone have been actively involved as researchers and practitioners from its earliest beginnings All have been deeply involved in uses of DEA in practical applications as well as in the development of its basic theory and methodologies The result is a

textbook grounded in authority experience and substance Decision Sciences Raghu Nandan Sengupta, Aparna Gupta, Joydeep Dutta, 2016-11-30 This handbook is an endeavour to cover many current relevant and essential topics related to decision sciences in a scientific manner Using this handbook graduate students researchers as well as practitioners from engineering statistics sociology economics etc will find a new and refreshing paradigm shift as to how these topics can be put to use beneficially Starting from the basics to advanced concepts authors hope to make the readers well aware of the different theoretical and practical ideas which are the focus of study in decision sciences nowadays It includes an excellent bibliography reference journal list information about a variety of datasets illustrated pseudo codes and discussion of future trends in research Covering topics ranging from optimization networks and games multi objective optimization inventory theory statistical methods artificial neural networks times series analysis simulation modeling decision support system data envelopment analysis queueing theory etc this reference book is an attempt to make this area more meaningful for varied readers Noteworthy features of this handbook are in depth coverage of different topics solved practical examples unique datasets for a variety of examples in the areas of decision sciences in depth analysis of problems through colored charts 3D diagrams and discussions about software **Synergizing Data Envelopment Analysis and Machine Learning for** Performance Optimization in Healthcare Ajibesin, Adeyemi Abel, G., Naveen Sundar, Thangavel, Senthil Kumar, 2025-05-02 Healthcare systems face the challenge of delivering high quality care while efficiently managing costs and resources Traditional methods of performance evaluation often fall short when addressing the complex and diverse nature of healthcare operations Data envelopment analysis DEA has been used to measure the efficiency of healthcare providers but its linear deterministic nature limits its adaptability to dynamic environments In contrast machine learning ML can handle complex non linear relationships and high dimensional data offering deeper insights and predictive capabilities. The synergy between DEA and ML presents an opportunity to overcome these limitations and drive more effective performance optimization It leads to efficiency assessments through predictive analytics and improved resource allocation with data driven insights and optimizing clinical pathways and decision support systems for better patient outcomes Synergizing Data Envelopment Analysis and Machine Learning for Performance Optimization in Healthcare explores the integration of DEA and ML to enhance performance optimization in healthcare improving efficiency care quality and resource management It examines theoretical foundations methodological innovations and practical applications providing a comprehensive resource with a key focus on development of algorithms to address challenges in healthcare optimization Covering topics such as healthcare equipment manufacturing human augmentation and robotic surgery this book is an excellent resource for hospital administrators clinical managers clinical decision makers policymakers public health officials professionals researchers scholars academics and more Web Services: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2018-12-07 Web service technologies are redefining the way that large and small companies are doing

business and exchanging information Due to the critical need for furthering automation engagement and efficiency systems and workflows are becoming increasingly more web based Web Services Concepts Methodologies Tools and Applications is an innovative reference source that examines relevant theoretical frameworks current practice guidelines industry standards and standardization and the latest empirical research findings in web services Highlighting a range of topics such as cloud computing quality of service and semantic web this multi volume book is designed for computer engineers IT specialists software designers professionals researchers and upper level students interested in web services architecture frameworks Efficiency of Elementary Education in India Arpita Ghose, 2016-10-06 This book assesses how efficient primary and upper primary education is across different states of India considering both output oriented and input oriented measures of technical efficiency It identifies the most important factors that could produce differential efficiency among the states including the effects of central grants school specific infrastructures social indicators and policy variables as well as state specific factors like per capita net state domestic product from the service sector inequality in distribution of income Gini coefficient the percentage of people living below the poverty line and the density of population The study covers the period 2005 06 to 2010 11 and all the states and union territories of India which are categorized into two separate groups namely i General Category States GCS and ii Special Category States SCS and Union Territories UT It uses non parametric Data Envelopment Analysis DEA and obtains the Technology Closeness Ratio TCR measuring whether the maximum output producible from an input bundle by a school within a given group is as high as what could be produced if the school could choose to join the other group The major departure of this book is its approach to estimating technical efficiency TE which does not use a single frontier encompassing all the states and UT as is done in the available literature Rather this method assumes that GCS SCS and UT are not homogeneous and operate under different fiscal and economic conditions

Environmental Impact C. A. Brebbia, Tae Soo Chon, 2012 The interdisciplinary conference addressed some of the most serious problems affecting sustainable development issues that must be considered by development projects in order to provide complete solutions A major motivation for the meeting was to learn from past failures and avoid repeating similar mistakes while attempting to prevent emerging threats to the environmental and ecological systems by developing more constructive and progressive approaches to ensure sustainability Publisher information <u>Economic Reforms for Global Competitiveness</u> Ushakov, Denis, 2017-09-13 Reforms are a necessary part of social and economic regulation Each year political pressure for economic reform becomes more prevalent especially from various international organizations and business associations Economic Reforms for Global Competitiveness is an essential reference source for the latest scholarly research on important factors of modern countries social and economic dynamics Featuring coverage on a broad range of topics such as human capital project management and fiscal reforms this book is ideally designed for academicians researchers and students seeking the latest material on the role and impact of economic reforms

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