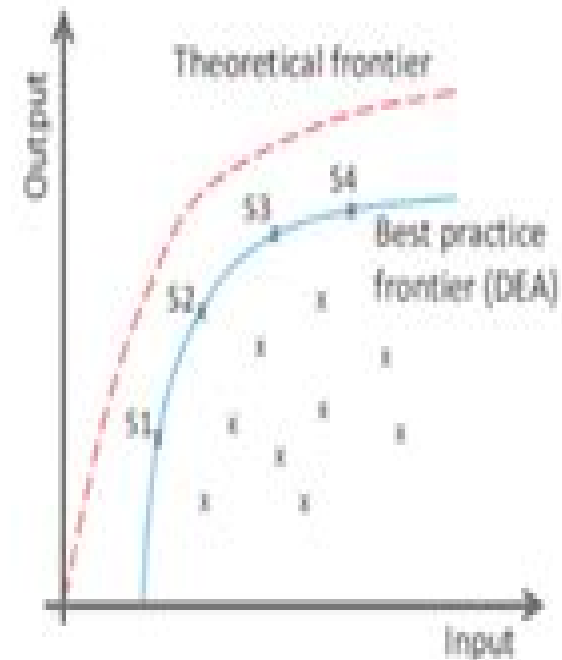


Data Envelopment Analysis



Quantitative Analytical
Technique Evaluating



Relative Efficiency of Decision-
Making Units (DMUs) In
Converting Inputs Into Outputs

Data Envelopment Analysis Data Envelopment Analysis

Pasquale De Marco



Data Envelopment Analysis Data Envelopment Analysis:

Data Envelopment Analysis: Theory, Methodology, and Applications Abraham Charnes, William W. Cooper, Arie Y. Lewin, Lawrence M. Seiford, 1995-07-31 This book represents a milestone in the progression of Data Envelopment 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 extensions. 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 developments. 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 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 W. W. Cooper are co-PIs and the support of the IC Institute.

Handbook on Data Envelopment Analysis William W. Cooper, Lawrence M. Seiford, Joe Zhu, 2004-03-31 This Handbook has been developed as a comprehensive reference for researchers, students, and practitioners. It reflects the state of the art in Data Envelopment Analysis. It also represents a milestone in the progression of a continuously advancing methodology which has extensive utility. Written by experts who are the major research contributors to the topics covered, the Handbook is organized in three sections. The first section is a comprehensive examination of the basic DEA models and DEA extensions. The second section consists of a collection of coverages by persons experienced in applications to the areas of banking, education, sports, retailing, health care, etc. The final section is a review of current DEA software technology. An Introduction to Data Envelopment Analysis R. Ramanathan, 2003-08-18 From the Foreword: This book is an excellent tool for practitioners who are interested in the merits and pitfalls of the technique. The author's research is an example of inventiveness, diligence, and accuracy. Freek A. Lootsma, Delft Institute of Technology. Data Envelopment Analysis is a Mathematical Programme for measuring performance efficiency of organizational units. The organizational units, termed as decision-making units (DMUs), can be of any kind: manufacturing units, a set of schools, banks, hospitals, power plants, police stations, prisons, a set of firms, etc. DEA has been unsuccessfully applied to measure the performance efficiency of these different kinds of DMUs which share a common characteristic: that they are non-profit organizations where measurement of performance efficiency is difficult. DEA has been employed for assessing the relative performance of a set of firms that use a variety of identical inputs, say in the case of a school, quality of students, teachers, grants, etc., to produce a variety of identical outputs, number of students who pass the final year, average grades obtained by the students in the final year, etc. DEA

assumes the performance of the DMUs by using the concepts of efficiency or productivity which is measured as the ratio of total outputs to total inputs Also the efficiencies estimated are relative to the best performing DMU or DMUs The best performing DMU is given a score of 100% and the performance of other DMUs vary between 0 100% **Data Envelopment Analysis** Wade D. Cook,Joe Zhu,2008 The current book introduces the methodology of data envelopment analysis DEA DEA uses mathematical programming techniques and models to evaluate the performance of peer units e g bank branches hospitals and schools in terms of multiple inputs used and multiple outputs produced DEA examines the resources available to each unit and monitors the conversion of these resources inputs into the desired outputs The book gives an overview of the various models from the literature and the geometric interpretations provided permit the reader to go beyond the mathematics Various topics are covered relating to important practical considerations These include dealing with time series data as well as methods for restricting multipliers The book will thus provide students researchers and practitioners with a solid understanding of the methodology its uses and its potential Introduction to the Theory and Application of Data Envelopment Analysis Emmanuel Thanassoulis,2013-06-29 1 DATA ENVELOPMENT ANALYSIS Data Envelopment Analysis DEA was initially developed as a method for assessing the comparative efficiencies of organisational units such as the branches of a bank schools hospital departments or restaurants The key in each case is that they perform feature which makes the units comparable the same function in terms of the kinds of resource they use and the types of output they produce For example all bank branches to be compared would typically use staff and capital assets to effect income generating activities such as advancing loans selling financial products and carrying out banking transactions on behalf of their clients The efficiencies assessed in this context by DEA are intended to reflect the scope for resource conservation at the unit being assessed without detriment to its outputs or alternatively the scope for output augmentation without additional resources The efficiencies assessed are comparative or relative because they reflect scope for resource conservation or output augmentation at one unit relative to other comparable benchmark units rather than in some absolute sense We resort to relative rather than absolute efficiencies because in most practical contexts we lack sufficient information to derive the superior measures of absolute efficiency DEA was initiated by Charnes Cooper and Rhodes in 1978 in their seminal paper Charnes et al 1978 The paper operationalised and extended by means of linear programming production economics concepts of empirical efficiency put forth some twenty years earlier by Farrell 1957 *Analytical Decision Making and Data Envelopment Analysis* S.A Edalatpanah,Farhad Hosseinzadeh Lotfi,Kristiaan Kerstens,Peter Wanke,2024-10-28 This book explores the intersection of data envelopment analysis DEA and various analytical decision making methodologies Featuring contributions from experts in the field from across the world each chapter delves into different aspects of DEA and its applications in real world scenarios The book covers a wide range of topics including integrating DEA with machine learning techniques performance evaluation in diverse sectors like banking and civil engineering and using DEA in managerial

decision making It also examines data mining during the Covid 19 pandemic and the application of blockchain and IoT in supply chain management The book offers a deep dive into the evolution of nonparametric frontier methods and the development of new optimization algorithms addressing the complexities of modern analytical decision making tools A few chapters delve into futuristic topics like fuzzy sets and their extensions in decision making and exploring e learning platforms for education This book is an invaluable resource for researchers practitioners and students interested in the latest DEA advancements and practical applications in various fields Its multidisciplinary approach makes it a useful addition to the libraries of those seeking to understand the complexities and potentials of modern analytical decision making tools

Advances In Data Envelopment Analysis Rolf Fare, Shawna Grosskopf, Dimitris Margaritis, 2015-03-26 Data Envelopment Analysis DEA is often overlooked in empirical work such as diagnostic tests to determine whether the data conform with technology which in turn is important in identifying technical change or finding which types of DEA models allow data transformations including dealing with ordinal data *Advances in Data Envelopment Analysis* focuses on both theoretical developments and their applications into the measurement of productive efficiency and productivity growth such as its application to the modelling of time substitution i e the problem of how to allocate resources over time and estimating the value of a Decision Making Unit DMU

Data Envelopment Analysis Wade D. Cook, Joe Zhu, 2014-07-08 This handbook serves as a complement to the Handbook on Data Envelopment Analysis eds W W Cooper L M Seiford and J Zhu 2011 Springer in an effort to extend the frontier of DEA research It provides a comprehensive source for the state of the art DEA modeling on internal structures and network DEA Chapter 1 provides a survey on two stage network performance decomposition and modeling techniques Chapter 2 discusses the pitfalls in network DEA modeling Chapter 3 discusses efficiency decompositions in network DEA under three types of structures namely series parallel and dynamic Chapter 4 studies the determination of the network DEA frontier In chapter 5 additive efficiency decomposition in network DEA is discussed An approach in scale efficiency measurement in two stage networks is presented in chapter 6 Chapter 7 further discusses the scale efficiency decomposition in two stage networks Chapter 8 offers a bargaining game approach to modeling two stage networks Chapter 9 studies shared resources and efficiency decomposition in two stage networks Chapter 10 introduces an approach to computing the technical efficiency scores for a dynamic production network and its sub processes Chapter 11 presents a slacks based network DEA Chapter 12 discusses a DEA modeling technique for a two stage network process where the inputs of the second stage include both the outputs from the first stage and additional inputs to the second stage Chapter 13 presents an efficiency measurement methodology for multi stage production systems Chapter 14 discusses network DEA models both static and dynamic The discussion also explores various useful objective functions that can be applied to the models to find the optimal allocation of resources for processes within the black box that are normally invisible to DEA Chapter 15 provides a comprehensive review of various type network DEA modeling techniques Chapter 16 presents

shared resources models for deriving aggregate measures of bank branch performance with accompanying component measures that make up that aggregate value Chapter 17 examines a set of manufacturing plants operating under a single umbrella with the objective being to use the component or function measures to decide what might be considered as each plant's core business Chapter 18 considers problem settings where there may be clusters or groups of DMUs that form a hierarchy The specific case of a set of electric power plants is examined in this context Chapter 19 models bad outputs in two stage network DEA Chapter 20 presents an application of network DEA to performance measurement of Major League Baseball MLB teams Chapter 21 presents an application of a two stage network DEA model for examining the performance of 30 U S airline companies Chapter 22 then presents two distinct network efficiency models that are applied to engineering systems

Data Envelopment Analysis Joe Zhu, 2015-03-18 This handbook represents a milestone in the progression of Data Envelopment Analysis DEA Written by experts who are often major contributors to DEA theory it includes a collection of chapters that represent the current state of the art in DEA research Topics include distance functions and their value duals cross efficiency measures in DEA integer DEA weight restrictions and production trade offs facet analysis in DEA scale elasticity benchmarking and context dependent DEA fuzzy DEA non homogenous units partial input output relations super efficiency treatment of undesirable measures translation invariance stochastic nonparametric envelopment of data and global frontier index Focusing only on new models approaches of DEA the book includes contributions from Juan Aparicio Mette Asmild Yao Chen Wade D Cook Juan Du Rolf F re Julie Harrison Raha Imanirad Andrew Johnson Chiang Kao Abolfazl Keshvari Timo Kuosmanen Sungmook Lim Wenbin Liu Dimitri Margaritis Reza Kazemi Matin Ole B Olesen Jesus T Pastor Niels Chr Petersen Victor V Podinovski Paul Rouse Antti Saastamoinen Biresh K Sahoo Kaoru Tone and Zhongbao Zhou

Data Envelopment Analysis Joe Zhu, 2016-03-22 This handbook compiles state of the art empirical studies and applications using Data Envelopment Analysis DEA It includes a collection of 18 chapters written by DEA experts Chapter 1 examines the performance of CEOs of U S banks and thrifts Chapter 2 describes the network operational structure of transportation organizations and the relative network data envelopment analysis model Chapter 3 demonstrates how to use different types of DEA models to compute total factor energy efficiency scores with an application to energy efficiency In chapter 4 the authors explore the impact of incorporating customers willingness to pay for service quality in benchmarking models on cost efficiency of distribution networks and chapter 5 provides a brief review of previous applications of DEA to the professional baseball industry followed by two detailed applications to Major League Baseball Chapter 6 examines efficiency and productivity of U S property liability P L insurers using DEA while chapter 7 presents a two stage network DEA model that decomposes the overall efficiency of a decision making unit into two components Chapter 8 presents a review of the literature of DEA models for the performance assessment of mutual funds and chapter 9 discusses the management strategies formulation of the international tourist hotel industry in Taiwan Chapter 10 presents a novel use of the two stage

network DEA to evaluate sustainable product design performances In chapter 11 authors highlight limitations of some DEA environmental efficiency models and chapter 12 reviews applications of DEA in secondary and tertiary education Chapter 13 measures the relative performance of New York State school districts in the 2011 2012 academic year Chapter 14 provides an introductory prelude to chapters 15 and 16 which both provide detailed applications of DEA in marketing Chapter 17 then shows how to decompose a new total factor productivity index that satisfies all economically relevant axioms from index theory with an application to U S agriculture Finally chapter 18 presents a unique study that conducts a DEA research front analysis applying a network clustering method to group the DEA literature over the period 2000 to 2014

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

Data Envelopment Analysis: Theory, Methodology, and Applications Abraham Charnes, William W. Cooper, Arie Y. Lewin, Lawrence M. Seiford, 2011-09-01 This book represents a milestone in the progression of Data Envelopment 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 extensions 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 developments 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

Extension of Data Envelopment Analysis with Preference Information Tarja Joro, Pekka J. Korhonen, 2015-01-02 This book provides an introduction to incorporating preference information in Data Envelopment Analysis DEA with a special emphasis in Value Efficiency Analysis In addition to theoretical considerations numerous illustrative examples are included Hence the book can be used as a teaching text as well Only a modest mathematical

background is needed to understand the main principles. The only prerequisites are a familiarity with linear algebra especially matrix calculus, b) knowledge of the simplex method and c) familiarity with the use of computer software. The book is organized as follows: Chapter 1 provides motivation and introduces the basic concepts. Chapter 2 provides the basic ideas and models of Data Envelopment Analysis. The efficient frontier and production possibility set concepts play an important role in all considerations. That's why these concepts are considered more closely in Chapter 3. Since the approaches introduced in this study are inspired by Multiple Objective Linear Programming, the basic concepts of this field are reviewed in Chapter 4. Chapter 5 also compares and contrasts Data Envelopment Analysis and Multiple Objective Linear Programming, providing some cornerstones for approaches presented later in the book. Chapter 6 discusses the traditional approaches to take into account preference information in DEA. In Chapter 7, Value Efficiency is introduced, and Chapter 8 discusses practical aspects. Some extensions are presented in Chapter 9, and in Chapter 10, Value Efficiency is extended to cover the case when a production possibility set is not convex. Three implemented applications are reviewed in Chapter 11.

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%.

Understanding Data Envelopment Analysis (DEA) Ronald Klimberg, Don Kern, 1992. *Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency* Ajibessin, 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, 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-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

Introduction and Comparison of Data Envelopment Analysis Software Packages Alireza Alinezhad,Seyyed Hamed Mirtaleb,Javad Khalili,2021-01-27 This book presents and compares 11 software packages of Data Envelopment Analysis DEA Performance measurement is done by various methods one of which is DEA Due to the ability of DEA models to meet practical requirements extensive research can be conducted in the fields of mathematics management economics and engineering Therefore during recent decades the use of this method has been considered with significant growth among researchers DEA evaluates the performance of Decision Making Units DMUs by using linear programming Since linear programming should be solved for each DMU performance measurement for a large number of DMUs is difficult and time consuming For this purpose various software packages have been designed and developed to address these problems Each of these software s is designed for different purposes and has different features and applications The main objectives of this book are to introduce express the advantages and disadvantages of each of these software packages as well as their comparisons

[A Comprehensive Guide to Data Envelopment Analysis for Decision-Making](#) Pasquale De Marco,2025-04-13 Embark on a transformative journey into the world of decision making with *A Comprehensive Guide to Data Envelopment Analysis for Decision Making* This comprehensive guidebook unlocks the power of Data Envelopment Analysis DEA empowering you with a structured framework to optimize performance identify areas for improvement and make informed decisions across diverse industries Within these pages you ll delve into the historical roots and evolution of DEA gaining a profound understanding of its underlying concepts terminology and diverse models Discover how DEA empowers organizations to objectively assess the performance of decision making units DMUs enabling them to pinpoint strengths weaknesses and opportunities for improvement Master the intricacies of DEA methodology delving into the mathematical formulations that underpin its calculations Explore the selection of input and output variables the significance

of data preprocessing and transformation and the strategies for handling missing data and outliers Unravel the nuances of DEA efficiency calculation methods gaining insights into how efficiency scores are derived and how they enable the identification of efficient and inefficient DMUs Utilize DEA as a catalyst for performance management harnessing its power to measure and improve the effectiveness and productivity of organizations Identify areas where improvements can be made set realistic targets and goals and optimize resource allocation to maximize outcomes Foster a culture of continuous improvement and learning leveraging DEA s insights to drive organizational excellence Explore the multifaceted applications of DEA in operations management unlocking its potential to streamline supply chains optimize production and processes enhance inventory management and control and elevate quality control and improvement Discover how DEA empowers businesses to make informed decisions regarding project management and scheduling ensuring efficient resource utilization and timely project completion Delve into the realm of financial analysis wielding DEA as a tool to evaluate financial performance assess credit risk optimize investment portfolios and make informed investment decisions Utilize DEA to evaluate the performance of bank branches and fund management entities gaining insights into their efficiency and effectiveness Harness the power of DEA in healthcare management transforming healthcare delivery through data driven insights Evaluate the performance of hospitals and clinics optimize resource allocation and efficiency and elevate the quality of care and patient satisfaction Employ DEA to assess medical technologies and evaluate healthcare policies driving evidence based decision making and improving patient outcomes Explore the applications of DEA in education and research fostering excellence and enhancing outcomes Evaluate the performance of schools and universities analyze faculty and researcher productivity and optimize resource allocation and funding Utilize DEA to evaluate educational programs and assess research impact ensuring the effective use of resources and the generation of meaningful knowledge Empower public sector organizations and government entities with DEA s capabilities enabling them to measure and enhance their performance Evaluate government performance analyze the efficiency of public services and assess the impact of policies and programs Utilize DEA to optimize program budgeting and resource allocation driving effective and efficient public sector operations Venture into the realm of sustainability and environmental management employing DEA to promote sustainable practices and mitigate environmental impact Evaluate environmental efficiency and performance analyze energy consumption and efficiency and identify opportunities for waste management and pollution control Leverage DEA to drive sustainable development and green initiatives contributing to a more sustainable future With its comprehensive coverage of DEA concepts applications and case studies **A Comprehensive Guide to Data Envelopment Analysis for Decision Making** stands as an invaluable resource for decision makers analysts researchers and students seeking to optimize performance make informed decisions and drive positive change in their organizations and communities If you like this book write a review on google books

Modeling Data Irregularities and Structural Complexities in Data Envelopment Analysis Joe

Zhu, Wade D. Cook, 2007-06-08 In a relatively short period of time data envelopment analysis DEA has grown into a powerful analytical tool for measuring and evaluating performance DEA is computational at its core and this book is one of several Springer aim to publish on the subject This work deals with the micro aspects of handling and modeling data issues in DEA problems It is a handbook treatment dealing with specific data problems including imprecise data and undesirable outputs

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 6. In chapter 5, the author will draw a conclusion about Data Envelopment Analysis Data Envelopment Analysis. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Data Envelopment Analysis Data Envelopment Analysis.

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Data Envelopment Analysis Data Envelopment Analysis Introduction

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