

# Chapter Data Envelopment Analysis Explained

## Handbook on Data Envelopment Analysis

William W. Cooper 2011-08-23 This 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.

## Handbook on Data Envelopment Analysis

William W. Cooper 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-commeasurable 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.

**The study on selection of green supply chain partners in USA logistics industry** Tai Nguyen Van 2015-09-30 Thesis (M.A.) from the year 2014 in the subject Business economics - Supply, Production, Logistics, grade: 9, , language: English, abstract: The main purpose of this paper is to evaluation of performance measure for green supply chain partners in U.S.A logistics industry using Data development annalysis. To conduct a valid and reliable evaluation process while applying the logistics companies case in U.S.A, we integrated the slacks-based measure of super efficiency (super-SBM) and Malmquist index to directly handle the slacks, explore best performer, analyzed the inter-temporal efficiency change, which is decomposed into 'catch-up' and 'frontier-shift' effects and find influential factors in selecting green supply chain partners (GSCPs) criteria. Public Sector Efficiency Measurement Joseph Augustine Ganley 1992 The core problem tackled in this book is the measurement of public-sector efficiency with Data Envelopment Analysis (DEA). The book is intended to inject new ideas into the diverse academic literature which up till now has lacked a critical book-

length exploration of DEA. The text is readable and intuitive making it suitable for a broad audience, including policy-makers and civil servants working on the control of public expenditure, privatisation etc. Graduates and advanced undergraduates should also find this book a valuable introduction to the nature and implementation of DEA. These will include students on economics, management science and accounting degrees. The book provides a realistic approach to DEA, acknowledging its problems such as the fundamental output measurement and variable selection problems which are rarely recognised in applied studies.

**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).

*Data Envelopment Analysis* William W. Cooper 2007-01-10 Data Envelopment Analysis: A Comprehensive Text with Models, Applications, References, And DEA-Solver Software, 2nd Edition is designed to provide a systematic introduction to DEA and its uses as a multifaceted tool for evaluating problems in a variety of contexts. Each chapter accompanies its developments with simple numerical examples and discussions of actual applications. Emphasis is placed on the use as well as an understanding of DEA and the topics in this book have been selected and treated accordingly. The first nine chapters cover the basic principles of DEA and the final seven chapters are more advanced treatment of DEA. These final chapters were completely revised into new chapters, reflecting recent developments that greatly extend the power and scope of DEA and lead to new directions for research and DEA uses. Together with the first ten chapters of the basic principles, they will provide students and researchers with a solid understanding of the methodology, its uses and its potential.

*Analysis of Performances and Assessment of Growth and Productivity in the ESCWA Region* 2005

*Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis* Toshiyuki Sueyoshi 2018-03-19 Introduces a bold, new model for energy industry pollution prevention and sustainable growth Balancing industrial pollution prevention with economic growth is one of the knottiest problems faced by industry today. This book introduces a novel approach to using data envelopment analysis (DEA) as a powerful tool for achieving that balance in the energy industries—the world’s largest producers of greenhouse gases. It describes a rigorous framework that integrates elements of the social sciences, corporate strategy, regional economics, energy economics, and environmental policy, and delivers a methodology and a set of strategies for promoting green innovation while solving key managerial challenges to greenhouse gas reduction and business growth. In writing this book the authors have drawn upon their pioneering work and considerable experience in

the field to develop an unconventional, holistic approach to using DEA to assess key aspects of sustainability development. The book is divided into two sections, the first of which lays out a conventional framework of DEA as the basis for new research directions. In the second section, the authors delve into conceptual and methodological extensions of conventional DEA for solving problems of environmental assessment in all contemporary energy industry sectors. Introduces a powerful new approach to using DEA to achieve pollution prevention, sustainability, and business growth Covers the fundamentals of DEA, including theory, statistical models, and practical issues of conventional applications of DEA Explores new statistical modeling strategies and explores their economic and business implications Examines applications of DEA to environmental analysis across the complete range of energy industries, including coal, petroleum, shale gas, nuclear energy, renewables, and more Summarizes important studies and nearly 800 peer reviewed articles on energy, the environment, and sustainability Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis is must-reading for researchers, academics, graduate students, and practitioners in the energy industries, as well as government officials and policymakers tasked with regulating the environmental impacts of industrial pollution.

**Measuring Efficiency** Richard H. Silkman 1986  
**Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency** Ajibesin, Adeyemi Abel 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.

*Extensions and New Developments in Data Envelopment Analysis* William Wager Cooper 1996

**Performance Benchmarking in Public Transport Sector. The Data Envelopment Analysis (DEA) method** Andreas Davidek 2017-11-28 Seminar paper from the year 2015 in the subject Business economics - Controlling, grade: 1,3, , course: Performance Benchmarking and Operations Research, language: English, abstract: The non-parametric approach is a common method for measuring the relative efficiency in the area of performance benchmarking and operations research. This approach does not require the a priori specification of a function. The estimation of the frontier of the production set only requires that the production set satisfies some properties, such as input and output factors. The Data Envelopment Analysis (DEA) method is a non-parametric approach that uses mathematical programming to estimate production frontiers and calculate efficiency scores. The above technical explanation is necessary, as the present seminar paper deals with the application of the DEA approach in the field of the public transport. The objective of this paper is to review the state of the art in performance benchmarking in terms of different DEA-based framework and criteria to measure efficiency in the environments of public transport. To contribute to this goal, the ambition is to provide

a systematic analysis of the performance criteria of the DEA models. Consequently, the main focus of this paper is to examine and classify the performance criteria.

*Data Envelopment Analysis: Theory, Methodology, and Applications* Abraham Charnes 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, co-PIs) and the support of the IC Institute.

**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' - Freerk 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 (DMU) 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 organization 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%.

Graphical Presentations of Data Envelopment Analyses Anand Desai 1987

**Use of Data Envelopment Analysis in Accounting Applications** Jean C. Bedard 1985

**Using Data Envelopment Analysis to Evaluate the Performance of Post-hurricane Electric Power Restoration Activities** Allison Coffey Reilly 2008 The post-hurricane restoration of electric power is attracting increasing scrutiny as customers' tolerance for even short power interruptions decreases. Currently there are no standards for what constitutes an acceptably fast restoration. This paper introduces the use of data envelopment analysis to help evaluate post-hurricane restorations through comparison with the experiences of other companies in similar storms. The method accounts for the variable severity of the hurricane themselves, so that companies are not penalized for outages that are long only because the hurricane that caused them was particularly severe. The analysis is illustrated through an application comparing 19 recent post-hurricane restoration experiences across 9 different electric power companies in the United States. The method could be applied to other types of infrastructure systems and other extreme events as well. (Abstract).

**Journal of Economic Literature** 2014

*Hospital efficiency analysis in England and*  
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Germany. What lessons can be learned from each other? Lucas Fandrey 2016-03-09 Master's Thesis from the year 2015 in the subject Medicine - Hospital Environment, Clinical Medicine, grade: 80, University of Hertfordshire, language: English, abstract: This report analyses the efficiency of hospitals in England and Germany. Data Envelopment Analysis (DEA) is utilised to estimate a best practice frontier and to evaluate the performance characteristics of different hospitals in the two countries. The measurement categories of input factors are represented by the hospital size (amount of beds), number of wards, number of employed medical specialists, sum of total inpatient admissions, demographic environment (population density in population/km<sup>2</sup>), and one output factor (mortality rates). Regarding these factors, the main findings reveal that the allocation of inefficient hospitals in England is broadly spread and, therefore, the mean efficiency value of hospitals in England is  $\approx 44\%$  (whereas 100% describes efficient units). In contrast, the mean efficiency value of German hospitals equates to  $\approx 91\%$ . Consequently, the allocation of inefficient German hospitals is less spread and the overall performance of hospital health supply is more efficient in Germany compared to England. Most remarkably, the amount of inpatient admissions is one of the main drivers for efficiency and especially the English hospitals suffer from high numbers of inpatient admissions, which may be reduced due to improvements in the primary healthcare supply provided by general practitioners.

Data Envelopment Analysis (DEA) as an Approach to Exploring Technical Efficiency in Higher Education Yingquan Song 2005

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