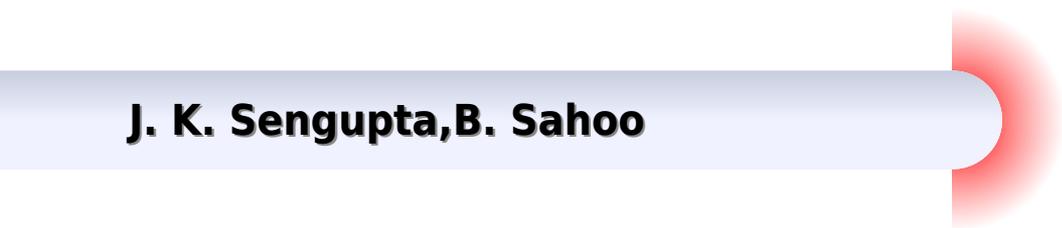


Data Envelopment Analysis and Its Applications to Management

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and MUKESH KUMAR

Data Envelopment Analysis And Its Applications To Management

J. K. Sengupta, B. Sahoo



Data Envelopment Analysis And Its Applications To Management:

Data Envelopment Analysis and Its Applications to Management Vincent Charles, Mukesh Kumar, 2013-02-14 Data envelopment analysis DEA a non parametric technique has emerged as a popular management tool for measuring the performance of a set of entities known as decision making units This book *Data Envelopment Analysis and Its Applications to Management* is a collection of contributions from DEA experts from various countries It covers a wide range of research papers from the theoretical development of DEA to its applications in various sectors such as economy banking education revenue management sports branch networks cities and live stock production systems The book is useful for researchers as well as practitioners who intend to apply DEA to their strategic and managerial decisions *Data Envelopment Analysis: Theory, Methodology, and Applications* Abraham Charnes, William W. Cooper, Arie Y. Lewin, Lawrence M. Seiford, 2013-12-01 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 [Handbook on Data Envelopment Analysis](#) William W. Cooper, Lawrence M. Seiford, Joe Zhu, 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

Data Envelopment Analysis William W. Cooper, Lawrence M. Seiford, Kaoru Tone, 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

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 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

Handbook of Operations Analytics Using Data Envelopment Analysis Shih-Nan Hwang, Hsuan-Shih Lee, Joe Zhu, 2016-07-01 This handbook focuses on Data Envelopment Analysis DEA applications in operations analytics which are fundamental tools and techniques for improving operation functions and attaining long term competitiveness In fact the handbook demonstrates that DEA can be viewed as Data Envelopment Analytics Chapters include a review of cross efficiency evaluation a case study on measuring the environmental performance of OECD countries how to select a set of performance metrics in DEA with an application to American banks a relational network model to take the operations of individual periods into account in measuring efficiencies

how the efficient frontier methods DEA and stochastic frontier analysis SFA can be used synergistically and how to integrate DEA and multidimensional scaling In other chapters authors construct a dynamic three stage network DEA model a bootstrapping based methodology to evaluate returns to scale and convexity assumptions in DEA hybridizing DEA and cooperative games using DEA to represent the production technology and directional distance functions to measure bank performance an input specific Luenberger energy and environmental productivity indicator and the issue of reference set by differentiating between the uniquely found reference set and the unary and maximal types of the reference set Finally additional chapters evaluate and compare the technological advancement observed in different hybrid electric vehicles HEV market segments over the past 15 years radial measurement of efficiency for the production process possessing multi components under different production technologies issues around the use of accounting information in DEA how to use DEA environmental assessment to establish corporate sustainability a summary of research efforts on DEA environmental assessment applied to energy in the last 30 years and an overview of DEA and how it can be utilized alone and with other techniques to investigate corporate environmental sustainability questions

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

Data 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

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

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 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 off 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

Operations Research Applications in Health Care Management Cengiz Kahraman,Y. Ilker Topcu,2017-12-08 This book offers a comprehensive reference guide to operations research theory and applications in health care systems It provides readers with all the necessary tools for solving health care problems The respective chapters written by prominent researchers explain a wealth of both basic and advanced concepts of operations research for the management of operating rooms intensive care units supply chain emergency medical service human resources lean health care and procurement To foster a better understanding the chapters include relevant examples or case studies Taken together they form an excellent reference guide for researchers lecturers and postgraduate students pursuing research on health care management problems The book

presents a dynamic snapshot on the field that is expected to stimulate new directions and stimulate new ideas and developments

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

Advances in the Theory and Applications of Performance Measurement and Management Ali Emrouznejad, Emmanuel Thanassoulis, Mehdi Toloo, 2024-09-02 This book presents selected proceedings of DEA45 International Conference on Data Envelopment Analysis which was held September 4-6 2023 at Surrey Business School University of Surrey Guildford UK It contains theoretical and empirical papers on Data Envelopment Analysis DEA and related fields with a focus on performance measurement and management It discusses the latest research and developments and their application in various areas such as regulation agriculture education financial and health services The book is of interest to both researchers and practitioners working on or utilizing the DEA method for examining efficiencies across various organizations

Data Envelopment Analysis with GAMS Ali Emrouznejad, Konstantinos Petridis, Vincent Charles, 2023-07-04 This book provides a comprehensive and practical introduction to Data Envelopment Analysis DEA It explains how this non parametric technique is used to measure performance and extract efficiency from homogeneous entities within a production procedure It situates DEA within a growing field of productivity analysis and performance measurement for which numerous models have been proposed This book encapsulates all of the advances in DEA models proposed in the literature These models are presented in the context of the GAMS software which is a powerful tool for mathematical programming models This book serves two educational purposes it introduces readers to DEA models and provides examples using GAMS In addition the reader is introduced to GAMS programming as well as innovative and practical applications GAMS codes are available for free

allowing readers to test and expand the models to meet their specific needs Neutrosophic Sets and Systems, Vol. 29, 2019 Florentin Smarandache, Mohamed Abdel-Basset, Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy neutrosophic set neutrosophic logic neutrosophic probability neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra geometry topology etc Introduction to the Theory and Application of Data Envelopment Analysis Emmanuel Thanassoulis, 2001-07-31 The book aims to introduce the reader to DEA in the most accessible manner possible It is specifically aimed at those who have had no prior exposure to DEA and wish to learn its essentials how it works its key uses and the mechanics of using it The latter will include using DEA software Students on degree or training courses will find the book especially helpful The same is true of practitioners engaging in comparative efficiency assessments and performance management within their organisation Examples are used throughout the book to help the reader consolidate the concepts covered **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 approach Applications of Management Science Ken Lawrence, Gary Kleinman, 2013-11-05 Applications of Management Science Volume 16 focuses on the application of management science to multiple criteria decision making data envelopment analysis and managerial applications This volume will be valuable to those interested in multiple criteria applications data envelopment analysis applications and other managerial applications of 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

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Data Envelopment Analysis And Its Applications To Management Introduction

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