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Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency

Adeyemi Abel Ajibesin and Narasimha Rao Vajjhala



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Data Envelopment Analysis Methods And Maxdea Software

Alim Isnansetyo, Tri Rini Nuringtyas



Data Envelopment Analysis Methods And Maxdea Software:

Proceedings of the Fifth International Conference of Transportation Research Group of India Manoranjan Parida, Avijit Maji, S. Velmurugan, Animesh Das, 2022-04-22 This book in three volumes comprises the proceedings of the Fifth Conference of Transportation Research Group of India CTRG2019 focusing on emerging opportunities and challenges in the field of transportation of people and freight The contents of the volume include characterization of conventional and innovative pavement materials operational effects of road geometry user impact of multimodal transport projects spatial analysis of travel patterns socio economic impacts of transport projects analysis of transportation policy and planning for safety and security technology enabled models of mobility services etc This book will be beneficial to researchers educators practitioners and policy makers alike

Proceeding of the 1st International Conference on Tropical Agriculture Alim Isnansetyo, Tri Rini Nuringtyas, 2017-11-21 The proceeding of tropical agriculture is a proceeding of papers presented at the International Conference on Tropical Agriculture Sustainability of agriculture production system is an important issue in the world which includes all aspects of sustainable criteria such as technical socio economic and ecological aspects This book covers sustainable tropical agriculture sustainable tropical fisheries sustainable tropical animal production sustainable tropical forestry tropical animal health and Innovative and Emerging Food Technology and Management The most common challenging issues in plant animal and fisheries production in the tropics are climate change inefficiency production system low technological innovation decreasing environment quality and the outbreak risk of pest and diseases These issues are closely linked to the socio economic condition of farmers as small scale farms are dominant in this area In addition post harvest technology is crucial to maintaining the high quality of products after on farm production This volume provides the recent research and development on tropical agriculture production systems for plant terrestrial animal and aquatic animal to establish sustainable agriculture production in the tropics

Public Sector Accountants and Quantum Leap: How Far We Can Survive in Industrial Revolution 4.0? Akhmad Solikin, Yuniarto Hadiwibowo, Benny Setiawan, Amrie Firmansyah, Hendrati Dwi Mulyaningsih, 2020-08-07 The Industrial Revolution 4.0 will not only cause job losses but will also create new workspaces that may not exist today It also needs to be considered by accountants in government because the processes of budget planning budget execution and financial reporting have used a large number of information systems In the era of the Industrial Revolution 4.0 the changes will be faster marked by the emergence of such systems as supercomputers smart robots cloud computing big data systems genetic engineering and the development of neurotechnology that allows humans to optimize brain function further Industrial Revolution 4.0 will disrupt the accounting profession This proceedings provides selected papers research on government accounting accountability and integrity public sector accounting financial accounting accounting information system auditing and assurance corporate sustainability forensic and management accounting public and corporate finance taxation and customs open innovation in public sector accounting The proceedings

provide details beyond what is possible to be included in an oral presentation and constitute a concise but timely medium for the dissemination of recent research results It will be invaluable to professionals and academics in the field of accounting finance and the public sector to get an understanding of recent research

Sustainable Agriculture Policies for Human Well-Being Bazyli Czyżewski, Łukasz Kryszak, 2022-09-27 This book deals with the important topic of policies for sustainable agriculture since food insecurity is a growing concern for policy makers and will affect the quality of life and well being of generations to come The authors provide a theoretical background to the concept of sustainable agriculture including its recent developments monitor the current state of sustainability in agriculture in different regions of the world and evaluate current agricultural policies to propose new solutions They show practical ways of sustainability measurement that could be applied to different regions The book takes into account sustainability indicators based on economic social and environmental aspects and discusses the trade offs between these three dimensions It also answers the question of whether current agricultural policies contribute to balancing between the goals of agriculture that of not just providing food but of contributing to the greater good and how policies differ and have evolved across the world Finally it puts together the best practices of sustainability for the use of policymakers The book pays particular attention to least developed countries where hunger and malnutrition are high but where productivity should not come at the expense of environmental and social goals This book is of use to a wide readership of policy makers professionals and academics in the social and environmental sciences interested in the improvement of human life through sustainable agricultural policy implementation

Agricultural Land Use Jerzy Bański, 2025-06-12 This book presents contemporary trends and challenges in agricultural land use drawing on an array of global case studies This volume examines agricultural land use through a three pronged approach structural transformations environmental challenges and planning and policy Reflecting the global relevance of contemporary challenges to agricultural land use the book presents a wide range of novel case studies from across the world including Poland Hungary Denmark Slovenia Czechia Tanzania Uganda South Africa Algeria Northeast Africa countries China India Australia New Zealand USA and Brazil Each chapter focuses on a particular issue related to agricultural land use in that country or region including land fragmentation reduction of crop land agricultural intensification desertification of soils climate change biodiversity loss traditional agricultural systems urbanization and rural development and planning challenges for agricultural land Together the chapters present a global view of the challenges facing the agricultural industry and offer solutions for developing sustainable agricultural practices to ensure food security and environmental and biodiversity conservation This book will be of great interest to students and scholars of food and agriculture land use and land management rural studies and sustainable development

Low-Carbon Consumption in China: Residential Behavior, Corporate Practices and Policy Implication Zhaohua Wang, Bin Zhang, 2020-07-14 This book explores China's low carbon consumption in the context of residential behaviour corporate practices and policy Implication It first calculates the carbon

and ecological footprints of residential consumption including both direct and indirect emissions before discussing Chinese residential behavioural aspects and determinants of electricity saving low carbon transportation low carbon product purchasing and e waste recycling The authors then investigate the relationship between industrial growth and carbon emissions using the example of the iron and steel industry to examine the motivation for energy intensive industries to reduce carbon emissions They also consider energy efficiency and inter company collaboration on carbon emission reduction Lastly the book describes the major low carbon policies in China and their impact economic cost and public acceptance

Improving crop nutritional security for sustainable agriculture in the era of climate change M. Iqbal R. Khan, Mohammad Irfan, Ravi Gupta, 2023-10-25

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%

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 William W. Cooper, Lawrence M. Seiford, Kaoru Tone, 2007-05-08 In a relatively short period of time Data Envelopment Analysis DEA has grown into a powerful quantitative analytical tool for measuring and evaluating performance It has been successfully applied to a host of different

entities engaged in a wide variety of activities in many contexts worldwide. In many cases evaluations of these entities have been resistant to other approaches because complex multiple levels of often poorly understood relations must be considered. A few examples of these multifaceted problems are 1 maintenance activities of US Air Force bases in geographically dispersed locations 2 police force efficiencies in the United Kingdom 3 branch bank performances in Canada Cyprus and other countries and 4 the efficiency of universities in performing their education and research functions in the U S England and France. In addition to localized problems DEA applications have been extended to performance evaluations of larger entities such as cities regions and countries. These extensions have a wider scope than traditional analyses because they include social and safety net expenditures as inputs and various quality of life dimensions as outputs. In other applications DEA has been used to supply new insights into business activities and into the methods that have been used to evaluate these activities. These include benchmarking studies of professional organizations including legal and accounting societies as well as organizational forms such as evaluating the relative efficiencies of the mutual vs corporate forms of organization that are used in the U S insurance industry. Finally DEA can also be used to evaluate objects as well as governmental business and societal activities. For example a test study found that DEA compared favorably with traditional engineering approaches for use in evaluating the relative efficiencies of jet aircraft engines. These advantages accrued to DEA because of its ability to simultaneously handle multiple outputs and inputs without having to first specify a system of weights for use in effecting these evaluations.

Data Envelopment Analysis: A Comprehensive Text with Models Applications References and DEA Solver Software 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 objective is to introduce students researchers and practitioners in business economics engineering and the sciences to Data Envelopment Analysis. 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. Please see the book's preface for chapter by chapter information on specific features and information on the supporting DEA Solver software. The preface can be found and downloaded at the internet [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

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

Extension of Data Envelopment Analysis with Preference Information Tarja Joro,Pekka J. Korhonen,2015-01-03 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

Data Envelopment Analysis with GAMS Ali Emrouznejad, Konstantinos Petridis, Vincent Charles, 2023 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

Quantitative Models for Performance Evaluation and Benchmarking Joe Zhu, 2014-09-11 The author is one of the prominent researchers in the field of Data Envelopment Analysis DEA a powerful data analysis tool that can be used in performance evaluation and benchmarking This book is based upon the author's years of research and teaching experiences It is difficult to evaluate an organization's performance when multiple performance metrics are present The difficulties are further enhanced when the relationships among the performance metrics are complex and involve unknown tradeoffs This book introduces Data Envelopment Analysis DEA as a multiple measure performance evaluation and benchmarking tool The focus of performance evaluation and benchmarking is shifted from characterizing performance in terms of single measures to evaluating performance as a multidimensional systems perspective Conventional and new DEA approaches are presented and discussed using Excel spreadsheets one of the most effective ways to analyze and evaluate decision alternatives The user can easily develop and customize new DEA models based upon these spreadsheets DEA models and approaches are presented to deal with performance evaluation problems in a variety of contexts For example a context dependent DEA measures the relative attractiveness of similar operations processes products Sensitivity analysis techniques can be easily applied and used to identify critical performance measures Two stage network efficiency models can be utilized to study performance of supply chain DEA benchmarking models extend DEA's ability in performance evaluation Various cross efficiency approaches are presented to provide peer evaluation scores This book also provides an easy to use DEA software DEAFrontier This DEAFrontier is an Add In for Microsoft Excel and provides a custom menu of DEA approaches This version of DEAFrontier is for use with Excel 97 2013 under Windows and can solve up to 50 DMUs subject to the capacity of Excel Solver It is an extremely powerful tool that can assist decision makers in benchmarking and analyzing complex operational performance issues in manufacturing organizations as well as evaluating processes in banking retail franchising health care public services and many other industries

Introduction to Data Envelopment Analysis

and Its Uses William W. Cooper, Lawrence M. Seiford, Kaoru Tone, 2008-11-01 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, 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 **Data Envelopment Analysis and Related**

Approaches for Measuring the Efficiency of Decision-making Units with an Application to Program

Follow-through in U.S. Education Edwardo Lao Rhodes, 1996 Data Envelopment Analysis Subhash C. Ray, 2012-07-19

This book describes the method of data envelopment analysis that uses mathematical programming techniques to obtain measures of efficiency of individual firms from their observed input and output quantities The method permits setting up realistic input output targets for the firm's managers A firm is considered to be technically inefficient when it fails to yield the maximum quantity of output producible from the input bundle it uses Measurement of technical efficiency is important for performance evaluation and provides an objective basis for differential rewards in the context of production Dynamics of Data Envelopment Analysis Jati Sengupta, 1995-07-31 Data envelopment analysis develops a set of nonparametric and semiparametric techniques for measuring economic efficiency among firms and nonprofit organizations Over the past decade this technique has found most widespread applications in public sector organizations However these applications have been mostly static This monograph extends this static framework of efficiency analysis in several new directions These include but are not limited to the following 1 a dynamic view of the production and cost frontier where capital inputs are treated differently from the current inputs 2 a direct role of the technological progress and regress which is so often stressed in total factor productivity discussion in modern growth theory in economics 3 stochastic efficiency in a dynamic setting where reliability improvement competes with technical efficiency 4 flexible manufacturing systems where flexibility of the

production process and the economies of scope play an important role in efficiency analysis and 5 the role of economic factors such as externalities and input interdependences Efficiency is viewed here in the framework of a general systems theory model Such a view is intended to broaden the scope of applications of this promising new technique of data envelopment analysis The monograph stresses the various applied aspects of the dynamic theory so that it can be empirically implemented in different situations As far as possible abstract mathematical treatments are avoided and emphasis placed on the statistical examples and empirical illustrations

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