

***Intertemporal
Production
Frontiers:
With Dynamic DEA***

***Rolf Färe
Shawna Grosskopf***

Kluwer Academic Publishers

Intertemporal Production Frontiers With Dynamic Dea

**Michel Fathi, Enrico Zio, Panos M.
Pardalos**



Intertemporal Production Frontiers With Dynamic Dea:

Intertemporal Production Frontiers: With Dynamic DEA Rolf Färe, Shawna Grosskopf, 2012-12-06 This book extends the efficiency literature to the case of intertemporal models First the authors introduce static network models which serve as building blocks for the intertemporal budgeting models and the dynamic models Next the authors devote two chapters to productivity measurements which are considered as comparative static models Intertemporal budgeting models and dynamic models are taken up subsequently Each chapter except the first contains empirical applications

Intertemporal Production Frontiers Rolf Fare, Shawna Grosskopf, 1996-04-30 **Advances in DEA Theory and Applications** Kaoru Tone, 2017-06-26 A key resource and framework for assessing the performance of competing entities including forecasting models Advances in DEA Theory and Applications provides a much needed framework for assessing the performance of competing entities with special emphasis on forecasting models It helps readers to determine the most appropriate methodology in order to make the most accurate decisions for implementation Written by a noted expert in the field this text provides a review of the latest advances in DEA theory and applications to the field of forecasting Designed for use by anyone involved in research in the field of forecasting or in another application area where forecasting drives decision making this text can be applied to a wide range of contexts including education health care banking armed forces auditing market research retail outlets organizational effectiveness transportation public housing and manufacturing This vital resource Explores the latest developments in DEA frameworks for the performance evaluation of entities such as public or private organizational branches or departments economic sectors technologies and stocks Presents a novel area of application for DEA namely the performance evaluation of forecasting models Promotes the use of DEA to assess the performance of forecasting models in a wide area of applications Provides rich detailed examples and case studies Advances in DEA Theory and Applications includes information on a balanced benchmarking tool that is designed to help organizations examine their assumptions about their productivity and performance

Productivity and Efficiency Measurement of Airlines Boon L. Lee, 2023-02-24 In today's competitive environment airlines are doing everything they can to improve efficiency and productivity Productivity and Efficiency Measurement of Airlines Data Envelopment Analysis using R identifies and explains sources of airline efficiency and helps achieve these goals through the use of state of the art measurement techniques Each chapter measures airline performance through the data envelopment analysis DEA model and other DEA variants This book thoroughly discusses topics such as cost and revenue efficiency performance carbon emissions performance management and complex airline data analysis employing appropriate models for each Model methodologies are also discussed The in depth coverage is useful for all audiences including students with a basic understanding of models researchers and airline operators and management Productivity and Efficiency Measurement of Airlines Data Envelopment Analysis using R provides R codes to help readers generate results and quantify efficient practices These results provide airline decision makers with

the essential information they need to create better policies and avoid underperforming practices Thoroughly summarizes key DEA measurement models for productivity and efficiency of airlines Guides users in generating airline performance results using DEA model and its variants Features R codes useful for generating empirical results and best practices promoting quality policy and management decisions

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

Network Data Envelopment Analysis Chiang Kao, 2016-08-23 This book presents the underlying theory model development and applications of network Data Envelopment Analysis DEA in a systematic way The field of network DEA extends and complements conventional DEA by considering not only inputs and outputs when measuring system efficiency but also the internal structure of the system being analyzed By analyzing the efficiency of individual internal components and more particularly by studying the effects of relationships among components which are modeled and implemented by means of various network structures the network DEA approach is able to help identify and manage the specific components that contribute inefficiencies into the overall systems This relatively new approach comprises an important analytical tool based on mathematical programming techniques with valuable implications to production and operations management The existing models for measuring the efficiency of systems of specific network structures are also discussed and the relationships between the system and component efficiencies are explored This book should be able to inspire new research and new applications based on the current state of the art Performance evaluation is an important task in management and is needed to better understand the past accomplishments of an organization and to plan for its future development However this task becomes rather challenging when multiple performance metrics are involved DEA is a powerful tool to cope with such issues For systems or operations composed of interrelated processes managers need to know how the performances of the various processes are evaluated and how they are aggregated to form the overall performance of the system This book provides an advanced exposition on performance evaluation of systems with network structures It explores the network nature of most production and operation systems and explains why network analyses are necessary

Uncertainty in Data Envelopment Analysis Farhad Hosseinzadeh Lotfi, Masoud Sanei, Ali Asghar Hosseinzadeh, Sadegh Niroomand, Ali Mahmoodirad, 2023-05-19 Classical data envelopment analysis DEA models use

crisp data to measure the inputs and outputs of a given system In cases such as manufacturing systems production processes service systems etc the inputs and outputs may be complex and difficult to measure with classical DEA models Crisp input and output data are fundamentally indispensable in the conventional DEA models If these models contain complex uncertain data then they will become more important and practical for decision makers Uncertainty in Data Envelopment Analysis introduces methods to investigate uncertain data in DEA models providing a deeper look into two types of uncertain DEA methods fuzzy DEA and belief degree based uncertainty DEA which are based on uncertain measures These models aim to solve problems encountered by classical data analysis in cases where the inputs and outputs of systems and processes are volatile and complex making measurement difficult Introduces methods to deal with uncertain data in DEA models as a source of information and a reference book for researchers and engineers Presents DEA models that can be used for evaluating the outputs of many real-life systems in social and engineering subjects Provides fresh DEA models for efficiency evaluation from the perspective of imprecise data Applies the fuzzy set and uncertainty theories to DEA to produce a new method of dealing with the empirical data *Estimating Output-Specific Efficiencies* D. Gstach, 2013-12-01 The present book is the offspring of my Habilitation which is the key to academic tenure in Austria Legal requirements demand that a Habilitation be published and so only seeing it in print marks the real end of this biographical landmark project From a scientific perspective I may hope to finally reach a broader audience with this book for a critical appraisal of the research done Aside from objectives the book is a reflection of many years of research preceding Habilitation proper in the field of efficiency measurement Regarding the subject matter the main intention was to fill an important remaining gap in the efficiency analysis literature Hitherto no technique was available to estimate output specific efficiencies in a statistically convincing way This book closes this gap although some desirable improvements and generalizations of the proposed estimation technique may yet be required before it will eventually establish as standard tool for efficiency analysis The likely audience for this book includes professional researchers who want to enrich their tool set for applied efficiency analysis as well as students of economics management science or operations research in tending to learn more about the potentials of rigorously understood efficiency analysis But also managers or public officials potentially ordering efficiency studies should benefit from the book by learning about the extended capabilities of efficiency analysis Just reading the introduction may change their perception of value for money when it comes to comparative performance measurement *The Palgrave Handbook of Economic Performance Analysis* Thijs ten Raa, William H. Greene, 2019-12-13 This Handbook takes an econometric approach to the foundations of economic performance analysis The focus is on the measurement of efficiency productivity growth and performance These concepts are commonly measured residually and difficult to quantify in practice In real life applications efficiency and productivity estimates are often quite sensitive to the models used in the performance assessment and the methodological approaches adopted by the analysis The Palgrave Handbook of Performance Analysis

discusses the two basic techniques of performance measurement deterministic benchmarking and stochastic benchmarking in detail and addresses the statistical techniques that connect them All chapters include applications and explore topics ranging from the output input ratio to productivity indexes and national statistics

Handbook On Data Envelopment Analysis In Business, Finance, And Sustainability: Recent Trends And Developments Sabri Boubaker,Thanh

Ngo,2024-07-26 This Handbook presents recent trends and new developments in Data Envelopment Analysis DEA research within the realms of business finance and sustainability Divided into three distinct parts it encompasses 19 chapters that offer insightful studies conducted in diverse national environments and organizational settings Part I focuses on DEA applications in business including healthcare supply chain management and governmental organizations Part II delves into the application of DEA in banking and finance providing valuable insights into the efficiency and performance of financial institutions Part III explores DEA s diverse applications in sustainability addressing topics such as sustainability indicators resource mobilization food production and farming In essence this Handbook stands as an invaluable reference work for stakeholders seeking to optimize organizational efficiency and performance across a variety of sectors

Handbook of Research on Emergent Applications of Optimization Algorithms Vasant, Pandian,Alparslan-Gok, Sirma Zeynep,Weber, Gerhard-Wilhelm,2017-10-31 Modern optimization approaches have attracted an increasing number of scientists decision makers and researchers As new issues in this field emerge different optimization methodologies must be developed and implemented The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering Featuring coverage on a broad range of topics and perspectives such as hybrid systems non cooperative games and cryptography this publication is ideally designed for students researchers and engineers interested in emerging developments in optimization algorithms

Production Economics Steven T. Hackman,2008-01-28 This scholarly yet accessible book provides an introduction to the main topics in production economics The book successfully integrates two historically distinct perspectives on modeling technology from microeconomics and engineering

Efficiency in the Public Sector Kevin J. Fox,2013-04-17 Regardless of where we live the management of the public sector impacts on our lives Hence we all have an interest one way or another in the achievement of efficiency and productivity improvements in the activities of the public sector For a government agency that provides a public service striving for unreasonable benchmark targets for efficiency may lead to a deterioration of service quality along with an increase in stress and job dissatisfaction for public sector employees Slack performance targets may lead to gross inefficiency poor quality of service and low self esteem for employees In the case of regulation inappropriate policies can lead to unprecedented disasters Examples include the decimation of fish stocks through mismanagement of fisheries and power blackouts through inappropriate restrictions on electricity generators and distributors Efficient taxation

policies minimise the tax bill for citizens In all of these cases efficient management is required although it is often unclear how to assess this efficiency In this volume several authors consider various aspects and contexts of performance measurement Hence this volume represents a unique collection of advances in efficiency assessment for the public sector by leading researchers in the field Efficiency in the Public Sector is divided into two sections The first is titled Issues in Public Sector Efficiency Evaluation and comprises of chapters 1-4 The second section is titled Efficiency Analysis in the Public Sector Advances in Theory and Practice This division is somewhat arbitrary in the sense there are significant overlapping themes in both sections However it serves to separate chapters that can be characterised as dealing with broader issues Section I from chapters that can be characterised as focusing on specific theoretical problems and empirical cases Section II

Health Care Benchmarking and Performance Evaluation Yasar A. Ozcan, 2014-07-01 This new edition continues to emphasize the use of data envelopment analysis DEA to create optimization based benchmarks within hospitals physician group practices health maintenance organizations nursing homes and other health care delivery organizations Suitable for graduate students learning DEA applications in health care as well as for practicing administrators it is divided into two sections covering methods and applications Section I considers efficiency evaluations using DEA returns to scale weight restricted multiplier models non oriented or slack based models including in this edition two versions of non controllable variable models and categorical variable models longitudinal panel evaluations and the effectiveness dimension of performance evaluation A new chapter then looks at new and advanced models of DEA including super efficiency congestion DEA network DEA and dynamic network models Mathematical formulations of various DEA models are placed in end of chapter appendices Section II then looks at health care applications within particular settings chapter by chapter including hospitals physician practices nursing homes and health maintenance organizations HMOs Other chapters then explore home health care and home health agencies dialysis centers community mental health centers community based your services organ procurement organizations aging agencies and dental providers DEA models to evaluate provider performance for specific treatments including stroke mechanical ventilation and perioperative services A new chapter then examines international country based applications of DEA in health care in 16 different countries along with OECD and multi country studies Most of the existing chapters in this section were expanded with recent applications Included with the book is online access to a learning version of DEA Solver software written by Professor Kaoru Tone which can solve up to 50 DMUs for various DEA models listed in the User's Guide at the end of the book **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

Performance Evaluation Harald Dyckhoff, Rainer Souren, 2020-01-13 This book examines performance evaluation in the context of assessing the non financial outcomes of human activities The topic is particularly relevant when economic environmental or social performance has to be evaluated e g the efficiency of actions and the lifecycles of products The authors combine multi criteria decision making and production theories to develop a theoretical and methodological foundation for performance evaluation They also demonstrate the typical pitfalls that are hindering the implementation of contemporary methods in practice Special emphasis is placed on

efficiency measurement with data envelopment analysis DEA and on data aggregation in life cycle assessment LCA **Data Envelopment Analysis with R** Farhad Hosseinzadeh Lotfi, Ali Ebrahimnejad, Mohsen Vaez-Ghasemi, Zohreh Moghaddas, 2019-07-23 This book introduces readers to the use of R codes for optimization problems First it provides the necessary background to understand data envelopment analysis DEA with a special emphasis on fuzzy DEA It then describes DEA models including fuzzy DEA models and shows how to use them to solve optimization problems with R Further it discusses the main advantages of R in optimization problems and provides R codes based on real world data sets throughout Offering a comprehensive review of DEA and fuzzy DEA models and the corresponding R codes this practice oriented reference guide is intended for masters and Ph D students in various disciplines as well as practitioners and researchers

Handbook of Smart Energy Systems Michel Fathi, Enrico Zio, Panos M. Pardalos, 2023-08-04 This handbook analyzes and develops methods and models to optimize solutions for energy access for industry and the general world population alike in terms of reliability and sustainability With a focus on improving the performance of energy systems it brings together state of the art research on reliability enhancement intelligent development simulation and optimization as well as sustainable development of energy systems It helps energy stakeholders and professionals learn the methodologies needed to improve the reliability of energy supply and demand systems achieve more efficient long term operations deal with uncertainties in energy systems and reduce energy emissions Highlighting novel models and their applications from leading experts in this important area this book will appeal to researchers students and engineers in the various domains of smart energy systems and encourage them to pursue research and development in this exciting and highly relevant field **Routledge Handbook of Transport in Asia** Junyi Zhang, Cheng-Min Feng, 2018-06-12 Asian transportation systems and services as well as their usage are fraught with challenges This handbook therefore seeks to examine the possible solutions to the problems faced by the region It illustrates the history of transportation development in Asia and provides a comprehensive overview of research on urban and intercity transport Presenting an extensive literature review and detailed summaries of the major findings and methodologies this book also offers suggestions for future research activities from top level international researchers Written from an interdisciplinary perspective the topics covered include Transportation systems across Asia Traffic accidents Air pollution Land use and logistics Transport governance Considering the population and economic development scale as well as the diverse cultures of Asia the Routledge Handbook of Transport in Asia will be a valuable resource for students and scholars of transportation Asian development and Asian Studies in general 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

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