



# **Data Envelopment Analysis: Balanced Benchmarking**

Wade D. Cook  
Joe Zhu

# Data Envelopment Analysis Balanced Benchmarking

**University of Michigan. College of  
Engineering**

A red circular graphic with a gradient, appearing as a partial circle or a thick arc, located to the right of the University of Michigan text.

### **Data Envelopment Analysis Balanced Benchmarking:**

Data Envelopment Analysis: Balanced Benchmarking Wade D. Cook, Joe Zhu, 2013-10-20 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 performance measures or metrics. These multiple performance measures are classified or coined as DEA inputs and DEA outputs. Although DEA has a strong link to production theory in economics, the tool is also used for benchmarking in operations management where a set of measures is selected to benchmark the performance of manufacturing and service operations. In the circumstance of benchmarking, the efficient DMUs as defined by DEA may not necessarily form a production frontier but rather lead to a best practice frontier. DEA's empirical orientation and absence of a priori assumptions have resulted in its use in a number of studies involving efficient or best practice frontier estimation in the nonprofit, regulated and private sectors. DEA applications involve a wide range of contexts such as education, health care, banking, armed forces, auditing, market research, retail outlets, organization effectiveness, transportation, public housing and manufacturing. DEA is a balanced benchmarking tool that will help organizations to examine their assumptions about their productivity and performance. The book provides students, researchers and practitioners with a solid understanding of the methodology, its uses and potentials in business analytics.

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

**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 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

**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

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 DEA Frontier This DEA Frontier is an Add In for Microsoft Excel and provides a custom menu of DEA approaches This version of DEA Frontier 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

**Nordic Economic Policy Review** Nordiska Ministerrådet, 2011

**The Economics of Benchmarking** Thijs ten Raa, 2009 The author presents the techniques and theory of benchmarking to explain how performance indices and rankings are developed and used to improve efficiency productivity and profitability The only software required is Microsoft Excel

**The Korean Journal of Policy Studies**, 2014

**College of Engineering (University of Michigan) Publications** University of Michigan. College of Engineering, 2012 Also contains brochures directories manuals and programs from various College of Engineering student organizations such as the Society of Women Engineers and Tau Beta Pi

**The Journal of Cost Analysis & Management**, 2004

Information Technology & Tourism, 2000

*Electrical & Electronics Abstracts*, 1997

Quantitative Models for Performance Evaluation and Benchmarking Joe Zhu, 2009-03-05 This second edition improves a number of DEA spreadsheet models and provides a DEA Frontier software for use with Excel 2007 Several new DEA models and approaches are added For example a new DEA based supply chain model chapter 8 and DEA models for two stage processes Chapter 14 are new additions to the book Models with restricted multipliers are also discussed and added into the DEA Frontier software A detailed use of sensitivity analysis in identifying critical measures under DEA is provided A demonstration of how to use the DEA Frontier software is provided at the end of related chapters 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 Spreadsheets are updated and modified for use with Excel 2007

Probleme und Lösungsansätze des Benchmarking in Tourismusdestinationen Bob Stephan, 2005-12-22 Diplomarbeit aus dem Jahr 2005 im Fachbereich Tourismus Sonstiges Note 1 7 Hochschule Heilbronn ehem Fachhochschule Heilbronn Sprache Deutsch Abstract Der gesamte Deutschlandtourismus ist bedingt durch

tiefgreifende technologische gesellschaftliche und ökonomische Veränderungen der letzten Jahre von Strukturveränderungen geprägt. Der Wettbewerbsdruck in der Tourismusbranche hat sich deutlich erhöht, was sich symptomatisch vor allem durch Auslastungsrückgänge und bei Kapazitäten sinkende Budgets bei den Tourismusorganisationen sowie einem hohen Fragmentierungsgrad und steigender Rivalität unter den Destinationen zeigt. Angesichts der zunehmend veränderten Wettbewerbssituation in Europa liegt die Zukunft des Deutschlandtourismus allein bei stetiger Innovationsbereitschaft noch mehr Qualität und Professionalität. Daher wird es die künftige Herausforderung der Tourismusorganisationen sein, innovative Methoden und Instrumente zum Ausbau der Wettbewerbsfähigkeit zu identifizieren und an die eigenen Bedürfnisse zu adaptieren. Benchmarking ermöglicht auf der Basis einer systematischen Analyse und des Vergleichs mit den Besten die eigenen Methoden, Prozesse und Dienstleistungen progressiv zu verbessern. Die besondere Relevanz dieses Instrumentes für Tourismusorganisationen ergibt sich vor allem aus der Möglichkeit, einen nachhaltigen Lernprozess innerhalb der eigenen Organisation zu initiieren und den Ausbau der eigenen Wettbewerbsfähigkeit durch die Entwicklung innovativer Lösungen zu revolutionieren. Ziel der vorliegenden Arbeit ist es, die Charakteristika des Benchmarking als Analyseinstrument zu erfassen und herauszustellen, welchen Beitrag das Instrument zum gezielten Ausbau der Wettbewerbsfähigkeit leisten kann. Darüber hinaus sind die Probleme aufzuzeigen, die mit einer praktischen Anwendung dieses Instrumentes aufgrund der komplexen Strukturen des Tourismus verbunden sind. Endziel ist es, den diagnostizierten Unzulänglichkeiten einen eigenständigen und umfassenden Lösungsansatz entgegenzustellen, der eine Analyse von Destinationen sowie den verantwortlichen Tourismusorganisationen integriert. Durch den Ansatz sollen richtungsweisende Möglichkeiten zur anwendungsbezogenen Weiterentwicklung aufgezeigt werden.

**Against the Current** Joel Ruet, Prem K. Kalra, 2006. This Volume Is The Third In A Series On The Power Sector Reforms In India. It Focuses On The Relevance Of The Act In Framing The New Indian Power System With Special Assessment Of Current Margins In Technological Enhancement Of The Sector. The Series Attempts At Understanding I The Organizational Tasks Ii The Tariffs Aspects Iii The Role Of The Private Iv The Role Of Technology In The Complex Variegated State Specific Indian Scenario And Formulating Clear Directions Along These Four Lines. Will Imply Understanding Their Interactions Their Meshing Together. The Study Is 3 Parts Electricity Act And Efficiency In Generation Distribution Technical Choices And Management Macro Level Aspects What To Do As Reforms Contributors Include Prem K Kalra D P Kothari Mahendra Kumar Joel Ruet A K Saxena Among Many Others.

*Six Sigma for Transactions and Service* Parveen S. Goel, 2005-01-07. Many of the Six Sigma methods successfully used in manufacturing are now being utilized in the transactional and service sectors. This resource provides a roadmap for implementing customer-centric Six Sigma.

**Benchmarking in Tourism and Hospitality Industries** Karl W. Wöber, 2002-08-12. Offers methodological framework for answering key benchmarking questions. Only substantial work covering this topic. World-wide coverage and usage. Benchmarking is a buzzword of the last decade that describes a method for comparing different companies by

measuring various data performance and goals This book focuses on the methodological aspects of the right selection of benchmarking partners     Analyzing Performance in Service Organizations H. David Sherman,2013     **Supporting Strategy** Frances A. O'Brien,Robert G. Dyson,2007-11-28 Decision making creativity and evaluation need to be supported by formal structured methods This edited work will explore the process and then present a range of frameworks hard and soft methods and models capable of supporting the process

## The Enigmatic Realm of **Data Envelopment Analysis Balanced Benchmarking**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Data Envelopment Analysis Balanced Benchmarking** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those that partake in its reading experience.

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