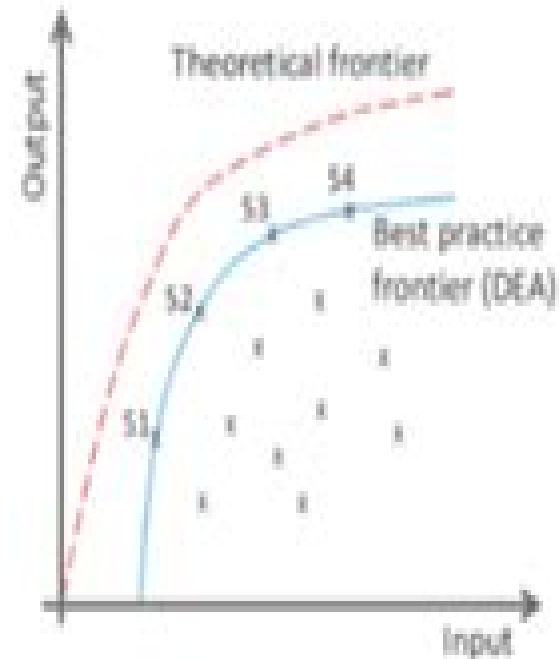


# Data Envelopment Analysis



Quantitative Analytical  
Technique Evaluating



Relative Efficiency of Decision-  
Making Units (DMUs) In  
Converting Inputs Into Outputs

# Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis

**Ajibesin, Adeyemi Abel, Vajjhala,  
Narasimha Rao**



## **Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis:**

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 *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 **Advances in Data Envelopment**

**Analysis** Ali Emrouznejad, 2014 **Advanced Topics in Inverse Data Envelopment Analysis** Mehdi Soltanifar, Mojtaba Ghiyasi, Farhad Hosseinzadeh Lotfi, Mohammadreza Shahriari, 2025-07-11 Advanced Topics in Inverse Data Envelopment Analysis Approaches for Handling Ratio Data explores and tackles the most significant challenges encountered by researchers and practitioners in decision analysis and performance evaluation This book delves into the sophisticated realm of Ratio Data Envelopment Analysis DEA R offering a thorough examination of advanced methodologies practical examples and insights into managing complex problems involving both non negative and negative data Filling crucial gaps in existing literature this comprehensive resource focuses on the emerging field of Inverse DEA R equipping readers with the necessary tools and knowledge to address a wide range of challenging data types This book serves as an essential guide for making informed and efficient decisions guiding researchers and graduate students in computer science applied mathematics industrial engineering and finance navigating the complexities of decision analysis in today s data driven world Offers an in

depth exploration of Inverse DEA R models making it an invaluable resource for researchers seeking to understand and apply these advanced techniques Includes numerous practical examples and case studies across different industries demonstrating how Inverse DEA R can be applied to real world scenarios Highlights potential areas for further research and development within Inverse DEA R encouraging readers to explore new avenues and contribute to the advancement of the field **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

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 *Advanced Intelligent Computing*

*Theories and Applications* De-Shuang Huang, Zhongming Zhao, Vitoantonio Bevilacqua, Juan Carlos Figueroa, 2010-07-30 This book constitutes the refereed proceedings of the 6th International Conference on Intelligent Computing ICIC 2010 held in Changsha China in August 2010 The 85 revised full papers presented were carefully reviewed and selected from a numerous submissions The papers are organized in topical sections on neural networks evolutionary learning genetic algorithms fuzzy theory and models fuzzy systems and soft computing particle swarm optimization and niche technology supervised semi

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Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency Ajibessin, 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 Tourism Economics** Álvaro Matias,Peter Nijkamp,Manuela Sarmento,2009-09-16 Advances in Tourism Economics follows his predecessor Advances in Modern Tourism Research 2007 in providing a thorough assessment of state of the art economic research in this rapidly developing field The authors start by analyzing the recent upsurge of model based economic research in the field

which builds on powerful tools in quantitative economics such as discrete choice models social accounting matrices data envelopment analyses impact assessment models or partial computable equilibrium models including environmental externalities The volume originates from this novel research spirit in the area and aims to offer an attractive collection of operational research tools and approaches It forms an appealing record of modern tourism economics and positions the field within the strong tradition of quantitative economic research with due attention for both the demand and supply side of the tourism sector including technological and logistic advances

Advances in Pacific Basin Business, Economics and Finance  
Cheng-Few Lee, Min-Teh Yu, 2024-04-04 Advances in Pacific Basin Business Economics and Finance APBBEF is a peer reviewed series designed to focus on interdisciplinary research in finance economics and management among Pacific Rim countries

**Finding the Frontier** Gerrit Tjeerd Post, 1999

**Advances in Swarm Intelligence** KAY CHEN TAN, 2010-06-08 This book and its companion volume LNCS vols 6145 and 6146 constitute the proceedings of the International Conference on Swarm Intelligence ICSI 2010 held in Beijing the capital of China during June 12 15 2010 ICSI 2010 was the first gathering in the world for researchers working on all aspects of swarm intelligence and provided an academic forum for the participants to disseminate their new research findings and discuss emerging areas of research It also created a stimulating environment for the participants to interact and exchange information on future challenges and opportunities of swarm intelligence research ICSI 2010 received 394 submissions from about 1241 authors in 22 countries and regions Australia Belgium Brazil Canada China Cyprus Hong Kong Hungary India Islamic Republic of Iran Japan Jordan Republic of Korea Malaysia Mexico Norway Pakistan South Africa Chinese Taiwan UK USA Vietnam across six continents Asia Europe North America South America Africa and Oceania Each submission was reviewed by at least three reviewers Based on rigorous reviews by the Program Committee members and reviewers 185 high quality papers were selected for publication in the proceedings with the acceptance rate of 46.9% The papers are organized in 25 cohesive sections covering all major topics of swarm intelligence research and development

**Advances in Operational Research in the Balkans** Nenad Mladenović, Angelo Sifaleras, Marija Kuzmanović, 2019-07-24 This proceedings volume presents recent theoretical and practical advances in operational research OR The papers focus on a number of key areas including combinatorial optimization integer programming heuristics and mathematical programming In addition this volume highlights OR applications in different areas such as financial decision making marketing e business project management scheduling traffic and transportation The chapters are based on papers presented at the 13th Balkan Conference on Operations Research BALCOR BALCOR is an established biennial conference The selected papers promote international collaboration among researchers and practitioners with a particular focus on the Balkan countries

Advances in Business and Management Forecasting Kenneth D. Lawrence, Michael D. Geurts, 2008-01-25 Includes sections devoted to financial applications of forecasting as well as demand forecasting This publication also includes a section on general business applications of

forecasting as well as one on forecasting methodologies

### **Advanced Mathematical Methods for Economic Efficiency**

**Analysis** Pedro Macedo, Victor Moutinho, Mara Madaleno, 2023-06-21 Economic efficiency analysis has received considerable worldwide attention in the last few decades with Stochastic Frontier Analysis SFA and Data Envelopment Analysis DEA establishing themselves as the two dominant approaches in the literature This book by combining cutting edge theoretical research on DEA and SFA with attractive real world applications offers a valuable asset for professors students researchers and professionals working in all branches of economic efficiency analysis as well as those concerned with the corresponding economic policies The book is divided into three parts the first of which is devoted to basic concepts making the content self contained The second is devoted to DEA and the third to SFA The topics covered in Part 2 range from stochastic DEA to multidirectional dynamic inefficiency analysis including directional distance functions the elimination and choice translating algorithm benefit of the doubt composite indicators and internal benchmarking for efficiency evaluations Part 3 also includes exciting and cutting edge theoretical research on e g robustness nonparametric stochastic frontier models hierarchical panel data models and estimation methods like corrected ordinary least squares and maximum entropy

### **Synergizing Data Envelopment Analysis and Machine Learning for Performance Optimization in Healthcare**

Ajibesin, Adeyemi Abel, G., Naveen Sundar, Thangavel, Senthil Kumar, 2025-05-02 Healthcare systems face the challenge of delivering high quality care while efficiently managing costs and resources Traditional methods of performance evaluation often fall short when addressing the complex and diverse nature of healthcare operations Data envelopment analysis DEA has been used to measure the efficiency of healthcare providers but its linear deterministic nature limits its adaptability to dynamic environments In contrast machine learning ML can handle complex non linear relationships and high dimensional data offering deeper insights and predictive capabilities The synergy between DEA and ML presents an opportunity to overcome these limitations and drive more effective performance optimization It leads to efficiency assessments through predictive analytics and improved resource allocation with data driven insights and optimizing clinical pathways and decision support systems for better patient outcomes Synergizing Data Envelopment Analysis and Machine Learning for Performance Optimization in Healthcare explores the integration of DEA and ML to enhance performance optimization in healthcare improving efficiency care quality and resource management It examines theoretical foundations methodological innovations and practical applications providing a comprehensive resource with a key focus on development of algorithms to address challenges in healthcare optimization Covering topics such as healthcare equipment manufacturing human augmentation and robotic surgery this book is an excellent resource for hospital administrators clinical managers clinical decision makers policymakers public health officials professionals researchers scholars academics and more

Proceedings of the 23rd International Symposium on Advancement of Construction Management and Real Estate Fenjie Long, Sheng Zheng, Yuzhe Wu, Gangying Yang, Yan Yang, 2021-02-02 This book presents the proceedings of CRIOCM2018 23rd International Symposium

on Advancement of Construction Management and Real Estate sharing the latest developments in real estate and construction management around the globe The conference was organized by the Chinese Research Institute of Construction Management CRIOCM working in close collaboration with Guizhou Institute of Technology GIT Written by international academics and professionals the proceedings discuss the latest achievements research findings and advances in frontier disciplines in the field of construction management and real estate Covering a wide range of topics including New type urbanization land development and land use urban planning and infrastructure construction housing market and housing policy real estate finance and investment new theories and practices on construction project management smart city BIM technologies and applications construction management in big data era green architecture and eco city rural rejuvenation and eco civilization other topics related to construction management and real estate the discussions provide valuable insights into the advancement of construction management and real estate in the new era The book is an outstanding reference resource for academics and professionals alike      *Advanced Topics in Applied Operations Management* Yair

Holtzman,2012-03-16 The chapters in *Advanced Topics in Applied Operations Management* creatively demonstrate a valuable connection among operations strategy operations management operations research and various departments systems and practices throughout an organization The authors show how mathematical tools and process improvements can be applied effectively in unique measures to other functions The book provides examples that illustrate the challenges confronting firms competing in today s demanding environment bridging the gap between theory and practice by analyzing real situations

**Environmental Modeling for Sustainable Regional Development: System Approaches and Advanced Methods**

Olej, Vladimir,Obr? lov , Ilona,Krupka, Jiri,2010-11-30 Understanding the advancement of sustainable development is critical to managing human activities to avoid the overexploitation of resources and pollution of the environment beyond tolerable levels Sustainable development involves not only preservation and care of the environment but also recognition of the complex relations between economic social and living systems *Environmental Modeling for Sustainable Regional Development System Approaches and Advanced Methods* presents processing methods and their applications which are practical for decision making and task management at the regional level as well as for scientific studies in sustainable development assessment This book serves as a reference guide for post graduate students in the field of management as well as a critical guide for managers government officials and information professionals



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