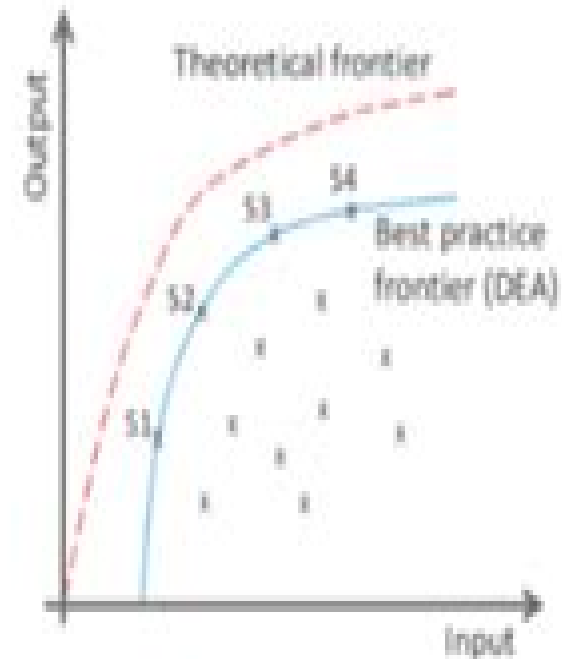


Data Envelopment Analysis



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

Ali Emrouznejad



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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 DEA Theory and**

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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. *Advances in Efficiency and Productivity II* Juan Aparicio, C. A. Knox Lovell, Jesus T. Pastor, Joe Zhu, 2020-07-20. This book surveys the state of the art in efficiency and productivity analysis, examining advances in the analytical foundations and empirical applications. The analytical techniques developed in this book for efficiency provide alternative ways of defining optimum outcome sets, typically as a technical production frontier or as an economic cost, revenue, or profit frontier, and alternative ways of measuring efficiency relative to an appropriate frontier. Simultaneously, the analytical techniques developed for efficiency analysis extend directly to productivity analysis, thereby providing alternative methods for estimating productivity levels and productivity change through time or productivity variation across producers. This book includes chapters using data envelopment analysis (DEA) or stochastic frontier analysis (SFA) as quantitative techniques capable of measuring efficiency and productivity. Across the book's 15 chapters, it broadly extends into popular application areas including agriculture, banking, and finance, and municipal performance, and relatively new application areas including corporate social responsibility, the value of intangible assets, land consolidation, and the measurement of economic well-being. The chapters also cover topics such as permutation tests for production frontier shifts, new indices of total factor productivity, and also randomized controlled trials and production frontiers.

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, 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 Efficiency and Productivity Juan Aparicio, C. A. Knox Lovell, Jesus T. Pastor, 2016-12-23 This book grows from a conference on the state of the art and recent advances in Efficiency and Productivity Papers were commissioned from leading researchers in the field and include eight explorations into the analytical foundations of efficiency and productivity analysis Chapters on modeling advances include reverse directional distance function a new method for estimating technological production possibilities a new distance function called a loss distance function an analysis of productivity and price recovery indices the relation of technical efficiency measures to productivity measures the implications for benchmarking and target setting of imposing weight restrictions on DEA models weight restrictions in a regulatory setting and the Principle of Least Action Chapters on empirical applications include a study of innovative firms that use innovation inputs to produce innovation outputs a study of the impact of potential coopetition or cooperation among competitors on the financial performance of European automobile plants using SFA to estimate the eco efficiency of dairy farms in Spain a DEA bankruptcy prediction model a combined stochastic cost frontier analysis model mixture hazard model the evolution of energy intensity in nine Spanish manufacturing industries and the productivity of US farmers as they age

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Table of Contents Advances In Data Envelopement Analysis Advances In Data Envelopement Analysis

1. Understanding the eBook Advances In Data Envelopement Analysis Advances In Data Envelopement Analysis
 - The Rise of Digital Reading Advances In Data Envelopement Analysis Advances In Data Envelopement Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Advances In Data Envelopement Analysis Advances In Data Envelopement Analysis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Advances In Data Envelopement Analysis Advances In Data Envelopement Analysis
 - User-Friendly Interface

4. Exploring eBook Recommendations from Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Personalized Recommendations
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis User Reviews and Ratings
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis and Bestseller Lists
5. Accessing Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis Free and Paid eBooks
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis Public Domain eBooks
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis eBook Subscription Services
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis Budget-Friendly Options
6. Navigating Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis eBook Formats
 - ePub, PDF, MOBI, and More
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis Compatibility with Devices
 - Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Highlighting and Note-Taking Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Interactive Elements Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
8. Staying Engaged with Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
9. Balancing eBooks and Physical Books Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions

- Managing Screen Time
- 11. Cultivating a Reading Routine Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Setting Reading Goals Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Fact-Checking eBook Content of Advances In Data Envelopment Analysis Advances In Data Envelopment Analysis
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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