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Dynamic and Stochastic Efficiency Analysis

Economics of Data
Envelopment Analysis

Jati K. Sengupta

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Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis

Jatikumar Sengupta



Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis:

Dynamic And Stochastic Efficiency Analysis Jati K Sengupta, 2000-05-05 This book extends the dynamic and stochastic analysis of economic efficiency by using the recent techniques of data envelopment analysis. New results and applications of these techniques in numerous areas of economics, finance and management are provided including treatment of private sector industries, portfolio models in finance, quality control techniques in managerial performance, the role of market competition, policy applications in investment models in finance, risk aversion and efficiency and technology and innovation. The most up to date tools of efficiency analysis developed here will be valuable for students and researchers in operations research, applied management science and applied microeconomics. *Dynamic and Stochastic Efficiency Analysis* Jatikumar Sengupta, 2000 This book extends the dynamic and stochastic analysis of economic efficiency by using the recent techniques of data envelopment analysis. New results and applications of these techniques in numerous areas of economics, finance and management are provided including treatment of private sector industries, portfolio models in finance, quality control techniques in managerial performance, the role of market competition, policy applications in investment models in finance, risk aversion and efficiency and technology and innovation. The most up to date tools of efficiency analysis developed here will be valuable for students and researchers in operations research, applied management science and applied microeconomics.

Dynamics of Data Envelopment Analysis Jati Sengupta, 2013-11-11 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. *Efficiency Models in Data Envelopment Analysis* J. K. Sengupta, B. Sahoo, 2006-10-06 This volume discusses the latest techniques and their economic applications for modern industries like computer, pharmaceutical, banking and other manufacturing. Both econometric and mathematical programming techniques

are analyzed so as to develop a synthetic approach

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

Efficiency Analysis by Production Frontiers

Jati Sengupta, 2012-12-06 Measuring productive efficiency for nonprofit organizations has posed a great challenge to applied researchers today The problem has many facets and diverse implications for a number of disciplines such as economics applied statistics management science and information theory This monograph discusses four major areas which emphasize the applied economic and econometric aspects of the production frontier analysis A Stochastic frontier theory B Data envelopment analysis C Clustering and estimation theory D Economic and managerial applications Besides containing an up to date survey of the most recent developments in the field the monograph presents several new results and theorems from my own research These include but are not limited to the following 1 interface with parametric theory 2 minimax and robust concepts of production frontier 3 game theoretic extension of the Farrell and Johansen models 4 optimal clustering techniques for data envelopment analysis and 5 the dynamic and stochastic generalizations of the efficiency frontier at the micro and macro levels In my research work in this field I have received great support and inspiration from Professor Abraham Charnes of the University of Texas at Austin who has basically founded the technique of data envelopment analysis developed it and is still expanding it My interactions with him have been most fruitful and productive I am deeply grateful to him Finally I must record my deep appreciation to my wife and two children for their loving and enduring support But for their support this work would not have been completed

Stochastic Benchmarking

Alireza Amirteimoori, Bires K. Sahoo, Vincent Charles, Saber Mehdizadeh, 2021-12-11 This book introduces readers to benchmarking techniques in the stochastic environment primarily stochastic data envelopment analysis DEA and provides stochastic models in DEA for the possibility of variations in inputs and outputs It focuses on the application of theories and interpretations of the mathematical programs which are combined with economic and organizational thinking The book's main purpose is to shed light on the advantages of the different methods in deterministic and stochastic environments and thoroughly prepare readers to properly use these methods in various cases Simple examples along with graphical illustrations and real world applications in industry are provided for a better understanding The models introduced here can be easily used in both theoretical and real world

evaluations This book is intended for graduate and PhD students advanced consultants and practitioners with an interest in quantitative performance evaluation **Advanced Robust and Nonparametric Methods in Efficiency Analysis** Cinzia Daraio,Léopold Simar,2007-04-10 Providing a systematic and comprehensive treatment of recent developments in efficiency analysis this readable book makes available an intuitive yet rigorous presentation of advanced nonparametric and robust methods This flexible toolbox can be used in theories based on the neoclassical theory of production and its alternatives including evolutionary theories The methods are complemented by empirical analysis of three different economic fields scientific research mutual funds industry and the insurance sector The research demonstrates the utility of the toolbox for a wide range of economic issues including the analysis of economies of scale and scope dynamics of age and agglomeration effects trade offs in production and service activities and explanations of efficiency differentials Of interest to applied economists broadly this book will also be of interest to those focused on Operations Research and or Management Science

Efficiency of Health System Units in Africa Kirigia, Joses Muthuri,2015-03-16 Despite sending huge sums of money on health every year the African region s burden of disease is persistently high Most of the countries in the region are lagging behind in achieving the health related United Nations Millennium Development Goals The African region s dismal health situation has largely been blamed on weakness pertaining to such factors as health leadership and governance service delivery health workforce medicines vaccines and health technologies health information and health system financing that have undermined the capacity of health systems of countries in the region to improve population health without wastage of resources Institutionalising health system efficiency monitoring as a basis for the design and implementation of appropriate policy interventions has been proposed as an effective way of curbing wastage of health system inputs Efficiency of Health System Units in Africa A Data Envelopment Analysis is the first book of its kind on application of the data envelopment analysis technique to examine the efficiency of health system decision making units in Africa The book interlaces lecture notes with research articles and case studies to equip students and practitioners of economics operations research management science and public health with knowledge and skills for undertaking technical efficiency cost efficiency and total factor productivity analyses **New Efficiency Theory** Jati Sengupta,2012-11-10 New efficiency theory refers to the various parametric and semi parametric methods of estimating production and cost frontiers which include data envelopment analysis DEA with its diverse applications in management science and operations research This monograph develops and generalizes the new efficiency theory by highlighting the interface between economic theory and operations research Some of the outstanding features of this monograph are 1 integrating the theory of firm efficiency and industry equilibrium 2 emphasizing growth efficiency in a dynamic setting 3 incorporating uncertainty of market demand and prices and 4 the implications of group efficiency by sharing investments Applications discuss in some detail the growth and decline of US computer industry and the relative performance of mutual fund portfolios **Encyclopedia of Sustainable Management**

Samuel Idowu, René Schmidpeter, Nicholas Capaldi, Liangrong Zu, Mara Del Baldo, Rute Abreu, 2023-11-21 This encyclopedia is the most comprehensive and up to date source of reference for sustainability in business and management It covers both traditional and emerging concepts and terms and is fully international in its scope More than 700 contributions of internationally renowned experts provide a definitive access to the knowledge in the area of sustainable and responsible management All actors in the field will find reliable and up to date definitions and explanations of the key terms and concepts of management in this reference work The Encyclopedia of Sustainable Management represents all aspects of management and business conduct It takes sustainability as a management concept that gives due credit to the complexity and diverging constraints in which businesses and corporations act today and it emphasizes and focuses approaches that help ensure that today's management decisions and actions will be the basis for tomorrow's prosperity *Financial Risk Management in Banking*

Shahsuzan Zakaria, Sardar Islam, 2019-08-08 As risk taking is an essential part of the banking industry banks must practise efficient risk management to ensure survival in uncertain financial climates Banking operations are specifically affected by fluctuations in interest rates which cause financial imbalance thus banks are now required to put in place an effective management structure that incorporates risk management efficiency measures that help mitigate the wide range of risks they face In this book the authors have developed a new modelling approach to determine banks financial risk management by offering detailed insights into the integrated approach of dollar offset ratio and Data Envelopment Analysis DEA based on derivatives usage It further analyses the efficiency measurement under stochastic DEA approaches namely i Bootstrap DEA BDEA ii Sensitivity Analysis and iii Chance Constrained DEA CCDEA As demonstrated in the modelling exercise this integrated approach can be applied to other cases that require risk management efficiency measurement strategies Additionally this is the first book to comprehensively review the derivative markets of both the developed and developing countries in the Asia Pacific region by examining the differences of risk management efficiency of the banking institutions in these countries Based on this measurement approach strategies are provided for banks to improve their strategic risk management practices as well as to reduce the impacts from external risks such as changes in interest rates and exchange rates Furthermore this book will help banks to keep abreast of recent developments in the field of efficiency studies in management accounting specifically in relation to hedge accounting used by banks in the Asia Pacific region

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

A Handbook of Transport Economics André de Palma,Robin Lindsey,Emile Quinet,Roger Vickerman,2011-01-01 This Handbook is a stellar compilation of up to date knowledge about the important topics in transport economics Authors include the very best in the field and they cover the most important topics for today s research and policy applications Individual chapters contain sound readable well referenced explanations of each topic s history and current status I cannot think of a better place to start for anyone wanting to become current in the field or in any of its parts Kenneth Small University of California Irvine US Bringing together insights and perspectives from close to 70 of the world s leading experts in the field this timely Handbook provides an up to date guide to the most recent and state of the art advances in transport economics The comprehensive coverage includes topics such as the relationship between transport and the spatial economy recent advances in travel demand analysis the external costs of transport investment appraisal pricing equity issues competition and regulation the role of public private partnerships and the development of policy in local bus services rail air and maritime transport This Handbook is designed both for use on postgraduate and advanced undergraduate courses and as a reference for anyone working in the field It also complements the textbook Principles of Transport Economics

Performance of the Chinese Insurance Industry Under Economic Reforms Shujie Yao,Zhongwei Han,2010-01-01 The Chinese insurance industry has experienced rapid development during the past decade This original book is the first study in English literature to address the efficiency issue of the Chinese insurance sector and presents a comprehensive review on alternative methodologies for analyzing firm efficiency The authors suggest alternative ways to improve performance of insurance companies in China and make useful policy recommendations on regulation competition and development of the insurance industry They expand the applications of data envelopment analysis and stochastic frontier analysis

Dynamics of Industry Growth Jati Sengupta,2012-05-02 Economic growth of a country depends on its industries The focus of modern growth theory is basically macroeconomics although neoclassical models use competitive markets and the optimization behavior of households and firms in general equilibrium framework The emphasis here is on industry growth where the microfoundations of industry are analyzed in terms of economic efficiency The various linkages which link firm growth with the industry growth are discerned here under various market structures both competitive and monopolistic The role of information in facilitating market signals and allowing the adoption of new

processes has been especially emphasized in this volume. Many issues of market failure and the suboptimality of competitive equilibria are due to incomplete and imperfect information structures and we need a comprehensive theory of information structures underlying the process of industry growth and its dynamics. This book will be of interest to economists studying economic and industry growth and innovation.

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.

Composite Systems

Decisions Mark Sh. Levin, 2007-05-30. Composite decisions consist of subdecisions and correspond to a composite system. This approach extends the traditional paradigm of decision making of Herbert A. Simon, i.e. choice of the best alternative, and realizes a two stage solving scheme: a selection of alternatives as the best subdecisions (local decisions) and b) composition of these local decisions into a composite global decision, accounting for the quality of the local decisions and their compatibility. This book describes an approach based on systems engineering and considered modular design of composite decisions. It describes basic systems approaches and examines basic technological problems for composite systems with applied examples including modular hierarchical design, multistage design and planning, redesign, improvement, adaptation, evaluation and combinatorial evolution development. Applied researchers, students and practitioners will find this book of value. It will also interest mathematicians, computer scientists, economists and social engineers.

Essays in Honor of Subal Kumbhakar

Christopher F. Parmeter, Mike G. Tsionas, Hung-Jen Wang, 2024-04-05. It is the editor's distinct privilege to gather this collection of papers that honors Subhal Kumbhakar's many accomplishments, drawing further attention to the various areas of scholarship that he has touched.

Environmental Assessment on Energy and Sustainability by Data Envelopment

Analysis Toshiyuki Sueyoshi, Mika Goto, 2018-02-02. Introduces a bold new model for energy industry pollution prevention and sustainable growth. Balancing industrial pollution prevention with economic growth is one of the knottiest problems faced by industry today. This book introduces a novel approach to using data envelopment analysis (DEA) as a powerful tool for

achieving that balance in the energy industries the world's largest producers of greenhouse gases It describes a rigorous framework that integrates elements of the social sciences corporate strategy regional economics energy economics and environmental policy and delivers a methodology and a set of strategies for promoting green innovation while solving key managerial challenges to greenhouse gas reduction and business growth In writing this book the authors have drawn upon their pioneering work and considerable experience in the field to develop an unconventional holistic approach to using DEA to assess key aspects of sustainability development The book is divided into two sections the first of which lays out a conventional framework of DEA as the basis for new research directions In the second section the authors delve into conceptual and methodological extensions of conventional DEA for solving problems of environmental assessment in all contemporary energy industry sectors Introduces a powerful new approach to using DEA to achieve pollution prevention sustainability and business growth Covers the fundamentals of DEA including theory statistical models and practical issues of conventional applications of DEA Explores new statistical modeling strategies and explores their economic and business implications Examines applications of DEA to environmental analysis across the complete range of energy industries including coal petroleum shale gas nuclear energy renewables and more Summarizes important studies and nearly 800 peer reviewed articles on energy the environment and sustainability Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis is must reading for researchers academics graduate students and practitioners in the energy industries as well as government officials and policymakers tasked with regulating the environmental impacts of industrial pollution

Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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Table of Contents Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis

1. Understanding the eBook Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - The Rise of Digital Reading Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Advantages of eBooks Over Traditional Books
2. Identifying Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment 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 a Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Personalized Recommendations

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

- Managing Screen Time
- 11. Cultivating a Reading Routine Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Setting Reading Goals Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Dynamic And Stochastic Efficiency Analysis Economics Of Data Envelopment Analysis
 - Fact-Checking eBook Content of Dynamic And Stochastic Efficiency Analysis Economics Of 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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