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Dynamics of Data Envelopment Analysis

Dynamics of Data Envelopment Analysis describes a set of nonparametric and semiparametric techniques for measuring economic efficiency among firms and nonprofit organizations. These techniques have been found in diverse applications in both economic and noneconomic fields.

The book includes detailed descriptions of a wide range of data envelopment analysis techniques, including basic DEA models, extensions to the basic DEA methods, and various DEA applications. The text also covers recent developments in the field, such as the use of DEA for measuring productivity and efficiency in various sectors, including financial services, education, and health care.

The book is written by experts in the field, and it provides a comprehensive review of basic DEA models and extensions. The book also includes applications to real-world problems, such as measuring the efficiency of banking and insurance companies.

Dynamics of Data Envelopment Analysis is an essential resource for researchers, practitioners, and students interested in measuring economic efficiency in various sectors. The book is well-organized and easy to follow, with numerous examples and case studies to illustrate key concepts.

Integration of Data Envelopment Analysis with Other Analytical Techniques

The book also discusses the integration of data envelopment analysis with other analytical techniques, such as regression analysis and panel data analysis. This integration allows for more comprehensive and accurate measurements of economic efficiency.

Overall, Dynamics of Data Envelopment Analysis is a valuable resource for anyone interested in measuring economic efficiency in various sectors. The book is highly recommended for researchers, practitioners, and students alike.
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. The network DEA approach is particularly useful for evaluating systems with network structures, such as organizations or systems with complex interdependencies. The book includes a collection of articles that present recent developments in the fields of optimization and dynamic game theory, economic dynamics, dynamic theory of the firm, and population dynamics and non standard applications of optimal control theory. The authors of the articles are well respected authorities in their fields and are known for their high quality research in the fields of optimization and economic dynamics.

Benchmarking in Tourism and Hospitality Industries

Karl Weber - 2008-02-12

Benchmarking in tourism and hospitality industries is the process of identifying best practices and comparing performance with competitors. This book offers methodological framework for answering key benchmarking questions only substantial work covering this topic worldwide 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.

The example of packaging -- 41 Life cycle aspects of the Walloon wood sector -- 42 Global warming assessment of Himalayan buildings -- 43 Integrated waste management and resource recovery in India -- 44 Biodiversity restoration and sustainable tourism in south-western Australia -- Part VI: Life cycle perspectives for regional socio-economic development -- 45 Synthesis - life cycle approaches and perspectives for sustainable regional development -- Index

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The Inclusive and Sustainable Industrial Development Index - Charles Fang Chin-Chen - 2020

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Estimating Output-Specific Efficiencies - D. Gatcha - 2002-03-31

The present book is the offspring of my Habilitation, which is the key to academic tenure in Austria. Legal requirements demand that a Hailitation 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 analysis. The objectives of this book were mainly to provide an extension to the existing literature in the field, which was centered around the conventional nonparametric frontier, as well as to introduce output-specific efficiencies as a new concept. The book is divided into three parts. The first part provides definitions and properties of output-specific efficiencies. The second part introduces a theoretical framework for output-specific efficiencies and shows how they can be estimated within the data envelopment analysis framework. The third part describes how output-specific efficiencies can be used in the classification of firms, and provides some empirical results. The book concludes with a summary of the main findings and implications for future research.

Fuzzy Sets Based Heuristics for Optimization - José-Luis Verdú - 2012-11-03

The aim of the book is to provide a comprehensive treatment of fuzzy set theory and its applications. The book is divided into three parts. The first part introduces the basic concepts of fuzzy sets and their properties. The second part discusses the applications of fuzzy sets in decision making and optimization problems. The third part provides an overview of the latest research in the field and outlines future research directions.

Airline Efficiency - John D. Bittan - 2004-06-10

An efficient air transport system is critical to countries attaining and sustaining healthy economies in an increasingly interconnected world. This volume 5 of Advances in Airline Economics includes literature surveys and original empirical research examining airline efficiency in the twenty first century.

Advanced Robust and Nonparametric Methods in Efficiency Analysis - Chintam Davari - 2007-04-01

Providing a systemic and comprehensive treatment of recent developments in efficiency analysis, this book makes available an intuitively rich presentation of advanced nonparametric and robust methods, with applications for the analysis of economies of scale and scope, off-loads in production and service activities, and explanations of efficiency variability.

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Efficiency of Health System Units in Africa - Muthuri Kiruga - 2013-12-29

Despite sending huge sums of money on health every year the African regions 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 regions dismal health situation has largely been blamed on the weaknesses pertaining to such factors as health leadership and governance; service delivery; health workforce; medicines, vaccines, and health technology; health information; and health financing that have undermined the capacity of health systems in the region to improve population health without wastages of resources. Interestingly, the African region's health systems, as depicted by the design of the network operational structure of transportation systems, has a very 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 the analysis of efficiency of health system decision-making units in Africa. The book uses literature reviews, 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.

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Energy Market and Energy Transition: Dynamics and Prospects - Xunpeng (Ren) Shi - 2021-05-06

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Efficiency, Market Dynamics and Industry Growth - J. K. Sengupta - 2009-10-29

The dynamics of industry growth, technology and globalization have a dramatic impact on the current economic growth of nations, significantly changing the market structure and world trade, and challenging the competitive equilibrium and their guiding principles. In the world of innovations and spin-off of R&D effects, various forms of non-productive activities are typical of many nations. These activities take the form of not only the activities of non-productive organizations and the relative network data envelopment analysis model. Chapter 3 demonstrates how to use different types of DEA models to compute total-factor energy efficiency scores with an application to energy efficiency. In chapter 4, the authors explore the impact of incorporating customers' willingness to pay for service quality in benchmarking models on cost efficiency of distribution networks, and chapter 5 provides a brief review of previous applications of DEA to the professional baseball industry. Followed by two detailed applications to Major League Baseball. Chapter 6 examines efficiency and productivity of U.S. property-liability (P-L) insurers using DEA, while chapter 7 presents a two-stage network model of DEA that decomposes overall efficiency into two components. Chapter 8 presents a review of the literature of DEA models for the performance assessment of mutual funds, and chapter 9 discusses the management strategies for improving organization performance. Chapter 10 analyzes the efficiency of the two-stage network DEA to evaluate sustainable product design performances. In chapter 11 authors highlight limitations of some DEA environmental efficiency models, and chapter 12 reviews applications of DEA in secondary and tertiary education. Chapter 13 reviews DEA applications to the New York State school district and applies the framework presented in the introductory prelude to chapters 15 and 16, which both provide detailed applications of DEA in marketing. Chapter 17 then shows how to decompose a new total factor productivity index that satisfies all economically-relevant axioms from index theory with an application to U.S. agriculture. Finally, chapter 18 presents a unique study of efficiency and productivity of professional baseball. The Handbook of Transportation demonstrates models and methods for predicting travel and freight demand, planning future transportation networks, managing and developing traffic control systems. Readers will learn how to use various engineering concepts and approaches to make future transportation safer, more efficient, and more sustainable. Edited by Dušan Teodorović and featuring 29 chapters from more than 50 leading global experts, with more than 200 illustrations, the Routledge Handbook of Transportation provides a comprehensive approach to productivity and efficiency analysis using economic and econometric theory.

Efficiency versus Sustainability in Dynamic Decision Making - Robin C. Sickles - 2019-03-31

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In modern business environments, ethical behavior plays a crucial role in success. Managers and business leaders must pay close attention to the ethics of their policies and behaviors to avoid a reputation-crushing scandal. Business Law and Ethics: Concepts, Methodologies, Tools, and Applications explores best practices business leaders need to navigate the complex landscape of legal and ethical issues on a day-to-day basis. Utilizing both current research and established conventions, this multi-volume reference is a valuable tool for business leaders, managers, students, and professionals in a globalized marketplace.