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Data Envelopment Analysis: Balanced Benchmarking **Integrating Data Envelopment Analysis and Balanced Scorecard for Improving Organizations' Performance Assessment** Using Balanced Scorecard and Fuzzy Data Envelopment Analysis for Multinational R & D Project Performance Assessment *Evaluating the Balanced Scorecard with Data Envelopment Analysis to Measure Management Efficiency of Hotels in Taiwan & Vietnam Combining Balanced Scorecard and Data Envelopment Analysis in Kitchen Employees Performance Measurement* Combining Balanced Score Card and Data Envelopment Analysis for Analyzing the Performance of Small Scale Fisheries *Balance Measurement Methods in Data Envelopment Analysis* **Multi-Objective Programming and Goal Programming** *Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis* **A Hybrid BSC-DEA Model with Indeterminate Information Measuring Operational Efficiency of Different Brands Under the Bistro Group of Restaurants Using Data Envelopment Analysis and Balanced Scorecard Approach** *Data Envelopment Analysis in the Financial Services Industry* **Data Envelopment Analysis with R Data Envelopment Analysis for Simplified Neutrosophic Sets Handbook of Operations Analytics Using Data Envelopment Analysis Handbook of Operations Research and Management Science in Higher Education Data Envelopment Analysis** *Analyzing Performance in Service Organizations* **Multiple Criteria Decision Making Advances in Intelligent Informatics, Smart Technology and Natural Language Processing Neutrosophic Sets and Systems, Vol. 29, 2019** Neutrosophic Sets and Systems, Book Series, Vol. 29, 2019 Data Envelopment Analysis *Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis Industrial Engineering, Management Science and Applications 2015* **Decision Management: Concepts, Methodologies, Tools, and Applications** *Performance Evaluation Strategic Management for Tourism, Hospitality and Events* **Sustainability and Competitiveness in the Hospitality Industry** *Operations and Service Management: Concepts, Methodologies, Tools, and Applications* **Data Envelopment Analysis and Effective Performance Assessment** *Dynamics of Data Envelopment Analysis* Research Anthology on Microfinance Services and Roles in Social Progress *Perspectives of Management Accounting for Sustainable Business Practices* **Handbook of Environmental and Sustainable Finance ECIE2011- 6th European Conference on Innovation and Entrepreneurship** *ECEI2011- 6th European Conference on Innovation and Entrepreneurship* Managing Service Productivity *Tourism and Leisure* New Development of Neutrosophic Probability, Neutrosophic Statistics, Neutrosophic Algebraic Structures, and Neutrosophic Plithogenic Optimizations

Multi-Objective Programming and Goal Programming Jul 18 2022 This volume constitutes the proceedings of the Fifth International Conference on Multi-Objective Programming and Goal Programming: Theory & Appli cations (MOPGP'02) held in Nara, Japan on June 4-7, 2002. Eighty-two people from 16 countries attended the conference and 78 papers (including 9 plenary talks) were

presented. MOPGP is an international conference within which researchers and prac titioners can meet and learn from each other about the recent development in multi-objective programming and goal programming. The participants are from different disciplines such as Optimization, Operations Research, Math ematical Programming and Multi-Criteria Decision Aid, whose common in terest is in multi-objective analysis. The first MOPGP Conference was held at Portsmouth, United Kingdom, in 1994. The subsequent conferenes were held at Torremolinos, Spain in 1996, at Quebec City, Canada in 1998, and at Katowice, Poland in 2000. The fifth conference was held at Nara, which was the capital of Japan for more than seventy years in the eighth century. During this Nara period the basis of Japanese society, or culture established itself. Nara is a beautiful place and has a number of historic monuments in the World Heritage List. The members of the International Committee of MOPGP'02 were Dylan Jones, Pekka Korhonen, Carlos Romero, Ralph Steuer and Mehrdad Tamiz.

Environmental Assessment on Energy and Sustainability by Data Envelopment Analysis Mar 02 2021 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.

Data Envelopment Analysis for Simplified Neutrosophic Sets Jan 12 2022 In recent years, there has been a growing interest in neutrosophic theory, and there are several methods for solving various problems under neutrosophic environment. However, a few papers have discussed the Data envelopment analysis (DEA) with neutrosophic sets. So, in this paper, we propose an input-oriented DEA model with simplified neutrosophic numbers and present a new strategy to solve it. The proposed method is based on the weighted arithmetic average operator and has a simple structure. Finally, the new approach is illustrated with the help of a numerical example.

Measuring Operational Efficiency of Different Brands Under the Bistro Group of Restaurants Using Data Envelopment Analysis and Balanced Scorecard Approach Apr 15 2022 The restaurant business in the Philippines has a great mix of old favorite brands, family-run restaurants to new fusion

concept chains. The "Bistro Group of Restaurants" alone, has introduced a total of 7 brands since the 1990's where no brand is similar to another. They continue to enjoy growth through the expansion of their product that is restaurant concepts. The purpose of this research study is to provide the Bistro Group, strategies and recommendations in operations improvement so that they can continue to grow into another decade. in coming up with strategies for the group, research provided in this thesis will seek to quality effecients of the seven Bistro Group brands, specifically, TGI Fridays, Italianni's, Fish & Co., Flapjacks which belongs to the older brabd category and Krazy Garlik, Billy Rock and Pig-Out, which belongs to the younger brand category. The research presented in this thesis provides an analysis in the application of DEA (data envelopment analysis) in measuring effecient and enefficient business units among seven brands both od and new brands in the Bistro Group of Restaurants. the study seeks to determine the effeciency of these brands based on inputs of investment, labor cost, rent and overhead expense ; and output of sales and net income ...

Evaluating the Balanced Scorecard with Data Envelopment Analysis to Measure Management Efficiency of Hotels in Taiwan & Vietnam Nov 22 2022

ECEI2011- 6th European Conference on Innovation and Entrepreneurship Jan 20 2020

Data Envelopment Analysis with R Feb 13 2022 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.

Data Envelopment Analysis: Balanced Benchmarking Feb 25 2023 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.

Perspectives of Management Accounting for Sustainable Business Practices Apr 22 2020 In the 21st century, management accounting gains new dimensions, expanding its research area. Additionally, management of sustainable performance is one of the phenomena faced by the current business environment, and in particular management corporations. The focus of management on profitability remains the main objective of any company, but it must also take into account the sustainability of social, economic, and environmental aspects. Under these circumstances, managerial decisions must be adjusted and strongly substantiated

considering the information required by internal and external stakeholders including financial reporting. The information requirements of customers and other stakeholders are steadily increasing, and some companies face certain problems in implementing the concept of sustainability and environmental reporting. Perspectives of Management Accounting for Sustainable Business Practices proposes an interdisciplinary perspective and explores various theoretical and practical approaches to management accounting and its impact in the 21st century on different areas of activity. It contrasts external financial accounting for government regulators and the investment community with internal management accounting for managers to leverage decision making. Covering topics such as corporate social responsibility, disclosure issues, and performance analysis, this premier reference source is an essential resource for business leaders and executives, accountants, financial controllers, business analysts, budgeting managers, students and faculty of higher education, librarians, researchers, and academicians.

Performance Evaluation Nov 29 2020 This book examines performance evaluation in the context of assessing the non-financial outcomes of human activities. The topic is particularly relevant when economic, environmental or social performance has to be evaluated, e.g. the efficiency of actions and the lifecycles of products. The authors combine multi-criteria decision-making and production theories to develop a theoretical and methodological foundation for performance evaluation. They also demonstrate the typical pitfalls that are hindering the implementation of contemporary methods in practice. Special emphasis is placed on efficiency measurement with data envelopment analysis (DEA), and on data aggregation in life cycle assessment (LCA).

Dynamics of Data Envelopment Analysis Jun 24 2020 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 modem 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.

Research Anthology on Microfinance Services and Roles in Social Progress May 24 2020 Microfinance has emerged as a growing field as more businesses discover the benefits and opportunities it provides. To ensure that microfinance is utilized appropriately, further study on the best practices and difficulties is required. The Research Anthology on Microfinance Services and Roles in Social Progress considers the ways in which microfinance can be utilized to achieve social progress as well as the challenges and opportunities of this area. Covering key topics such as income, small businesses, entrepreneurship, and credit, this major reference work is ideal for industry professionals, government officials, computer scientists, entrepreneurs, business owners, managers, policymakers, researchers, scholars, practitioners, instructors, and students.

Tourism and Leisure Nov 17 2019 The

Festschrift in honor of Prof. Dr. Peter Keller, president of the International Association of Scientific Experts in Tourism (AIEST) since 1994, represents a wide range of tourism research as well as the current state of the ongoing debates in tourism as a scientific research field. The aim is to cover multiple topics and trends in travelling and to discuss future development possibilities in the leisure industry.

ECIE2011- 6th European Conference on Innovation and Entrepreneurship Feb 19 2020

Strategic Management for Tourism, Hospitality and Events Oct 29 2020 Strategic Management for Tourism, Hospitality and Events is the must-have text for students approaching this subject for the first time. It introduces students to fundamental strategic management principles in a Tourism, Hospitality and Events context and brings theory to life by integrating a host of industry-based case studies and examples throughout. Among the new features and topics included in this edition are: Extended coverage to Hospitality and Events to reflect the increasing need and importance of a combined sector approach to strategy New international Tourism, Hospitality and Events case studies from both SME's and large-scale businesses are integrated throughout to show applications of strategic management theory, such as objectives, products and markets and strategic implementation. Longer combined sector case studies are also included at the end of the book for seminar work. New content on emerging strategic issues affecting the tourism ,hospitality and events industries, such as innovation, employment, culture and sustainability Web Support for tutors and students providing explanation and guidelines for instructors on how to use the textbook and case studies, additional exercises, case studies and video links for students. This book is written in an accessible and engaging style and structured logically with useful features throughout to aid students' learning and understanding. This book is an essential resource to Tourism, Hospitality and Events students.

Combining Balanced Score Card and Data Envelopment Analysis for Analyzing the Performance of Small Scale Fisheries Sep 20 2022 The balanced scorecard (BSC) is an accepted methodology for putting strategy into action. The BSC provides a comprehensive performance measurement for an organization with respect to both financial and non-financial perspectives, including the triple bottom line of planet, people, and profit. Through various implementations to companies, organizations, and sectors, balanced scorecards have been used widely both for strategic purposes, as well as for more tactical focus for auditing current performance. BSC implementation is particularly adequate when integrated with the operational processes of the organization. The integration between the strategic plan and the financial and operational plans proceed via the business process model that covers the operational processes associated with the objectives of the organization in the strategy map. In this way, BSC is a tool for real-time monitoring of performance as well as providing the crucial linkage to the organization's strategy that enables the proper implementation of the organization's strategy. Data envelopment analysis (DEA) has been widely applied for measuring the efficiency of a specific decision-making unit (DMU) against a projected point on an efficiency frontier. DEA is therefore particularly suitable for measuring the organizational efficiency based on the BSC indicators, which are defined as Key Performance Indicators (KPIs). In the commercial fisheries sector, sustainable strategy of fisheries organizations can be gained by running the current operations more effectively, and by integrating processes enabling adaptation to change. The efficiency frontier of the DEA model can be used to calculate the efficiency of fisheries operations. The proposed research is undertaken as part of the Canadian Fisheries Research Network (CFRN) to investigate the application of BSC and DEA for defining commercial fisheries performance evaluation variables with respect to the objectives of environmental sustainability, economic viability, and social and cultural stability in compliance with, and in the absence of, performance monitoring alleged in the Fisheries and Oceans, Canada Integrated Fisheries Management Plans (IFMP). The

combination of BSC-DEA methodologies is developed in this research as a required performance monitoring system suitable for IFMPs for analyzing the relative efficiency of commercial fisheries case studies across Canada towards incorporating best sustainable practices in the industry.

Neutrosophic Sets and Systems, Vol. 29, 2019 Jun 05 2021 "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Sustainability and Competitiveness in the Hospitality Industry Sep 27 2020 The hospitality industry is one of the most significant drivers of economic growth and socioeconomic advances in both developed and developing countries. This industry contributes directly to gross domestic product, job creation, income level, destination expansion, and economic development. Forecasts for 2020 indicated a promising year was ahead for this industry, but the COVID-19 pandemic had a catastrophic impact. Hospitality companies are experiencing one of the biggest, unprecedented crises to date, and experts must now rethink strategies to ensure these businesses' recovery. Sustainability and Competitiveness in the Hospitality Industry focuses on complex issues from a hotel industry perspective. It surveys existing research by reflecting on the pandemic's impacts and generates scenarios for how to strengthen business structures. Covering a wide range of topics such as digital hospitality and tourism products, this reference work is ideal for managers, business professionals, entrepreneurs, practitioners, researchers, academicians, instructors, and students.

Analyzing Performance in Service Organizations Sep 08 2021

Balance Measurement Methods in Data Envelopment Analysis Aug 19 2022

Decision Management: Concepts, Methodologies, Tools, and Applications Dec 31 2020 The implementation of effective decision making protocols is crucial in any organizational environment in modern society. Emerging advancements in technology and analytics have optimized uses and applications of decision making systems. Decision Management: Concepts, Methodologies, Tools, and Applications is a compendium of the latest academic material on the control, support, usage, and strategies for implementing efficient decision making systems across a variety of industries and fields. Featuring comprehensive coverage on numerous perspectives, such as data visualization, pattern analysis, and predictive analytics, this multi-volume book is an essential reference source for researchers, academics, professionals, managers, students, and practitioners interested in the maintenance and optimization of decision management processes.

Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis Jun 17 2022 Organizations can use the valuable tool of data envelopment analysis (DEA) to make informed decisions on developing successful strategies, setting specific goals, and identifying underperforming activities to improve the output or outcome of performance measurement. The Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis highlights the advantages of using DEA as a tool to improve business performance and identify sources of inefficiency in public and private organizations. These recently developed theories and applications of DEA will be useful for policymakers, managers, and practitioners in the areas of sustainable development of our society including environment, agriculture, finance, and higher education sectors.

Data Envelopment Analysis Oct 09 2021 This volume systematically details both the basic principles and new developments in Data Envelopment Analysis (DEA), offering a solid understanding of the methodology, its uses, and its potential. New material in this edition includes coverage of recent developments that have greatly extended the power and scope of DEA and have lead to new directions for research and DEA uses. Each chapter accompanies its developments with simple numerical examples and discussions of actual

applications. The first nine chapters cover the basic principles of DEA, while the final seven chapters provide a more advanced treatment. *Data Envelopment Analysis in the Financial Services Industry* Mar 14 2022 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.

Managing Service Productivity Dec 19 2019 This volume describes how frontier efficiency methodologies such as Data Envelopment Analysis (DEA) and other techniques such as multi-criteria decision making can help service industries to improve their performance by providing a ranking of best-practice efficient service units and by identifying sources of inefficiency for each service unit. It explains how they can be used to determine potential improvement targets for each of the inefficient service units, to identify peers for each service organization and to provide a basis for continuous performance improvement. Presenting applications in a variety of industries, this book will be useful for the service management to improve service productivity, profitability, sustainability and quality and effectiveness of service deliveries. A free trial version of the World's leading Data Envelopment Analysis Software (PIM-DEA) is available for readers of this book.

Integrating Data Envelopment Analysis and Balanced Scorecard for Improving Organizations' Performance Assessment Jan 24 2023

A Hybrid BSC-DEA Model with Indeterminate Information May 16 2022 Strategy is the main source of long-term growth for organizations, and if it is not successfully implemented, even if appropriate ones are adopted, the process is futile. The balanced scorecard which focuses on four aspects such as growth and learning, internal processes, customer, and financial is considered as a comprehensive framework for assessing performance and the progress of the strategy. Moreover, the data envelopment analysis is one of the best mathematical methods to compute the efficiency of organizations. The combination of these two techniques is a significant quantitative measurement with respect to the organization's performance. However, in the real world, determinate and indeterminate information exists. Henceforth, the indeterminate issues are inescapable and must be considered in the performance evaluation. Neutrosophic number is a helpful tool for dealing with information that is indeterminate and incomplete.

Advances in Intelligent Informatics, Smart Technology and Natural Language Processing Jul 06 2021 This book constitutes the refereed proceedings of the 13th Joint International Symposium on Artificial Intelligence and Natural Language Processing, iSAI-NLP2017, held in Prachuap Khiri Khan, Thailand, in August 2017, and the 10th International Conference on Knowledge, Information and Creativity Support Systems, KICSS2015, held in Phuket, Thailand, in November 2015. It presents 22 carefully reviewed full papers on the following topics: artificial intelligence; machine learning; decision support systems; data mining; data analysis; natural language processing; multilingual processing; language and ontology unification; text classification; knowledge-based information systems; tracking systems; virtual reality; pattern recognition and image processing; signal classification; object detection and recognition; real-time sensor network; cloud-based services; and information security.

Multiple Criteria Decision Making Aug 07 2021 Data and its processed state 'information' have become an indispensable resource for

virtually all aspects of business, education, etc. Consequently, decisions regarding the handling of this data, transforming it into meaningful information, and ultimately arriving at the best course of action have taken on a new importance. This book highlights a selection of cutting-edge research on decision making presented at the 25th International Conference on Multiple Criteria Decision Making (MCDM 2019), held in Istanbul, Turkey.

Data Envelopment Analysis Apr 03 2021 This handbook serves as a complement to the Handbook on Data Envelopment Analysis (eds, W.W. Cooper, L.M. Seiford and J, Zhu, 2011, Springer) in an effort to extend the frontier of DEA research. It provides a comprehensive source for the state-of-the art DEA modeling on internal structures and network DEA. Chapter 1 provides a survey on two-stage network performance decomposition and modeling techniques. Chapter 2 discusses the pitfalls in network DEA modeling. Chapter 3 discusses efficiency decompositions in network DEA under three types of structures, namely series, parallel and dynamic. Chapter 4 studies the determination of the network DEA frontier. In chapter 5 additive efficiency decomposition in network DEA is discussed. An approach in scale efficiency measurement in two-stage networks is presented in chapter 6. Chapter 7 further discusses the scale efficiency decomposition in two stage networks. Chapter 8 offers a bargaining game approach to modeling two-stage networks. Chapter 9 studies shared resources and efficiency decomposition in two-stage networks. Chapter 10 introduces an approach to computing the technical efficiency scores for a dynamic production network and its sub-processes. Chapter 11 presents a slacks-based network DEA. Chapter 12 discusses a DEA modeling technique for a two-stage network process where the inputs of the second stage include both the outputs from the first stage and additional inputs to the second stage. Chapter 13 presents an efficiency measurement methodology for multi-stage production systems. Chapter 14 discusses network DEA models, both static and dynamic. The discussion also explores various useful objective functions that can be applied to the models to find the optimal allocation of resources for processes within the black box, that are normally invisible to DEA. Chapter 15 provides a comprehensive review of various type network DEA modeling techniques. Chapter 16 presents shared resources models for deriving aggregate measures of bank-branch performance, with accompanying component measures that make up that aggregate value. Chapter 17 examines a set of manufacturing plants operating under a single umbrella, with the objective being to use the component or function measures to decide what might be considered as each plant's core business. Chapter 18 considers problem settings where there may be clusters or groups of DMUs that form a hierarchy. The specific case of a set off electric power plants is examined in this context. Chapter 19 models bad outputs in two-stage network DEA. Chapter 20 presents an application of network DEA to performance measurement of Major League Baseball (MLB) teams. Chapter 21 presents an application of a two-stage network DEA model for examining the performance of 30 U.S. airline companies. Chapter 22 then presents two distinct network efficiency models that are applied to engineering systems.

Data Envelopment Analysis and Effective Performance Assessment Jul 26 2020 For any organization, analysis of performance and effectiveness through available data allows for informed decision making. Data envelopment analysis, or DEA, is a popular, effective method that can be used to measure productive efficiency in operations management assessment. Data Envelopment Analysis and Effective Performance Assessment addresses the myriad of practical uses and innovative developments of DEA. Emphasizing the importance of analyzing productivity by measuring inputs, goals, economic growth, and performance, this book covers a wide breadth of innovative knowledge. This book is essential reading for managers, business professionals, students of business and ICT, and computer engineers.

Neutrosophic Sets and Systems, Book Series, Vol. 29, 2019 May 04 2021 "Neutrosophic Sets and Systems" has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic,

neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field, such as the neutrosophic structures developed in algebra, geometry, topology, etc.

Handbook of Environmental and Sustainable Finance Mar 22 2020 The use of financial concepts and tools to shape development is hardly new, but their recent adoption by advocates of sustainable environmental management has created opportunities for innovation in business and regulatory groups. The Handbook of Environmental and Sustainable Finance summarizes the latest trends and attitudes in environmental finance, balancing empirical research with theory and applications. It captures the evolution of environmental finance from a niche scholarly field to a mainstream subdiscipline, and it provides glimpses of future directions for research. Covering implications from the Kyoto and Paris Protocols, it presents an intellectually cohesive examination of problems, opportunities, and metrics worldwide. Introduces the latest developments in environmental economics, sustainable accounting work, and environmental/sustainable finance Explores the effects of environmental regulation on the economy and businesses Emphasizes research about the trade-environmental regulation nexus, relevant for economics and business students

Combining Balanced Scorecard and Data Envelopment Analysis in Kitchen Employees Performance Measurement Oct 21 2022

Using Balanced Scorecard and Fuzzy Data Envelopment Analysis for Multinational R & D Project Performance Assessment Dec 23 2022

Handbook of Operations Analytics Using Data Envelopment Analysis Dec 11 2021 This handbook focuses on Data Envelopment Analysis (DEA) applications in operations analytics which are fundamental tools and techniques for improving operation functions and attaining long-term competitiveness. In fact, the handbook demonstrates that DEA can be viewed as Data Envelopment Analytics. Chapters include a review of cross-efficiency evaluation; a case study on measuring the environmental performance of OECS countries; how to select a set of performance metrics in DEA with an application to American banks; a relational network model to take the operations of individual periods into account in measuring efficiencies; how the efficient frontier methods DEA and stochastic frontier analysis (SFA) can be used synergistically; and how to integrate DEA and multidimensional scaling. In other chapters, authors construct a dynamic three-stage network DEA model; a bootstrapping based methodology to evaluate returns to scale and convexity assumptions in DEA; hybridizing DEA and cooperative games; using DEA to represent the production technology and directional distance functions to measure band performance; an input-specific Luenberger energy and environmental productivity indicator; and the issue of reference set by differentiating between the uniquely found reference set and the unary and maximal types of the reference set. Finally, additional chapters evaluate and compare the technological advancement observed in different hybrid electric vehicles (HEV) market segments over the past 15 years; radial measurement of efficiency for the production process possessing multi-components under different production technologies; issues around the use of accounting information in DEA; how to use DEA environmental assessment to establish corporate sustainability; a summary of research efforts on DEA environmental assessment applied to energy in the last 30 years; and an overview of DEA and how it can be utilized alone and with other techniques to investigate corporate environmental sustainability questions.

Operations and Service Management: Concepts, Methodologies, Tools, and Applications Aug 27 2020 Organizations of all types are consistently working on new initiatives, product lines, and workflows as a way to remain competitive in the modern business environment. No matter the type of project at hand, employing the best methods for effective execution and timely completion of the task is essential to business success. Operations and Service Management: Concepts, Methodologies, Tools, and Applications is a comprehensive reference source for the latest research on business

operations and production processes. It examines the need for a customer focus and highlights a range of pertinent topics such as financial performance measures, human resource development, and business analytics, this multi-volume book is ideally designed for managers, professionals, students, researchers, and academics interested in operations and service management.

Handbook of Operations Research and Management Science in Higher Education Nov 10 2021 This handbook covers various areas of Higher Education (HE) in which operations research/management science (OR/MS) techniques are used. Key examples include: international comparisons, university rankings, and rating academic efficiency with Data Envelopment Analysis (DEA); formulating academic strategy with balanced scorecard; budgeting and planning with linear and quadratic models; student forecasting; E-learning evaluation; faculty evaluation with questionnaires and multivariate statistics; marketing for HE; analytic and educational simulation; academic information systems; technology transfer with systems analysis; and examination timetabling. Overviews, case studies and findings on advanced OR/MS applications in various functional areas of HE are included.

Industrial Engineering, Management Science and Applications 2015 Feb 01 2021 This volume provides a complete record of presentations made at Industrial Engineering, Management Science and Applications 2015 (ICIMSA 2015), and provides the reader with a snapshot of current knowledge and state-of-the-art results in industrial engineering, management science and applications. The goal of ICIMSA is to provide an excellent international forum for researchers and practitioners from both academia and industry to share cutting-edge developments in the field and to exchange and distribute the latest research and theories from the international community. The conference is held every year, making it an ideal platform for people to share their views and experiences in industrial engineering, management science and applications related fields.

New Development of Neutrosophic Probability, Neutrosophic Statistics, Neutrosophic Algebraic Structures, and Neutrosophic Plithogenic Optimizations Oct 17 2019 This volume presents state-of-the-art papers on new topics related to neutrosophic theories, such as neutrosophic algebraic structures, neutrosophic triplet algebraic structures, neutrosophic extended triplet algebraic structures, neutrosophic algebraic hyperstructures, neutrosophic triplet algebraic hyperstructures, neutrosophic n-ary algebraic structures, neutrosophic n-ary algebraic hyperstructures, refined neutrosophic algebraic structures, refined neutrosophic algebraic hyperstructures, quadruple neutrosophic algebraic structures, refined quadruple neutrosophic algebraic structures, neutrosophic image processing, neutrosophic image classification, neutrosophic computer vision, neutrosophic machine learning, neutrosophic artificial intelligence, neutrosophic data analytics, neutrosophic deep learning, and neutrosophic symmetry, as well as their applications in the real world.