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Handbook on Data Envelopment Analysis

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Handbook on Data Envelopment Analysis William W. Cooper, Lawrence M. Seiford, Joe Zhu, 2006-04-11 Data Envelopment Analysis DEA is a relatively new data oriented approach for evaluating the performances of a set of entities called Decision Making Units DMUs which convert multiple inputs into multiple outputs DEA has been used in evaluating the performances of many different kinds of entities engaged in many different kinds of activities in many different contexts It has opened up possibilities for use in cases which have been resistant to other approaches because of the complex and often unknown nature of the relations between the multiple inputs and outputs involved in many of these activities which are often reported in non commensurable units DEA has also been used to supply new insights into activities and entities that have previously been evaluated by other methods This handbook is intended to represent a milestone in the progression of DEA Written by experts who are often major contributors to the topics to be covered it includes a comprehensive review and discussion of basic DEA models extensions to the basic DEA methods and a collection of DEA applications in the areas of banking education sports retail health care and a review of current DEA software technology This handbook's chapters are organized into three categories i basic DEA models concepts and their extensions ii DEA applications and iii xii Preface DEA software packages The first category consists of eleven chapters

The energy-data envelopment analysis (EM-DEA) approach handbook: An illustrated guide on how to use the EM-DEA approach to assess resource- and energy-use efficiency and the sustainability of agricultural and forestry ecosystems Mwambo, F.M., 2023-02-03

Handbook of Research on Strategic Performance Management and Measurement Using Data Envelopment Analysis Osman, Ibrahim H., Anouze, Abdel Latef, Emrouznejad, Ali, 2013-08-31 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 with GAMS Ali Emrouznejad, Konstantinos Petridis, Vincent Charles, 2023-07-04 This book provides a comprehensive and practical introduction to Data Envelopment Analysis DEA It explains how this non parametric technique is used to measure performance and extract efficiency from homogeneous entities within a production procedure It situates DEA within a growing field of productivity analysis and performance measurement for which numerous models have been proposed This book encapsulates all of the advances in DEA models proposed in the literature These models are presented in the context of the GAMS software which is a powerful tool for mathematical programming models This book serves two

educational purposes it introduces readers to DEA models and provides examples using GAMS In addition the reader is introduced to GAMS programming as well as innovative and practical applications GAMS codes are available for free allowing readers to test and expand the models to meet their specific needs

Handbook of Research on Digital Transformation Management and Tools Pettinger, Richard, Gupta, Brij B., Roja, Alexandru, Cozmiuc, Diana, 2022-06-30 Advances in digital technologies continue to impact all areas of life including the business sector Digital transformation is ascertained to usher in the digitalized economy and involves new concepts and management tools that must be considered in the context of management science and practice For business leaders to ensure their companies remain competitive and relevant it is essential for them to utilize these innovative technologies and strategies The Handbook of Research on Digital Transformation Management and Tools highlights new digital concepts within management such as digitalization and digital disruption and addresses the paradigm shift in management science incurred by the digital transformation towards the digitalized economy Covering a range of important topics such as cultural economy online consumer behavior sustainability and social media this major reference work is crucial for managers business owners researchers scholars academicians practitioners instructors and students

Technology: Toward Business Sustainability Bahaaeddin Alareeni, Allam Hamdan, 2024-02-29 This book proceedings addresses a crucial gap in understanding the impact of technology on Business Model Innovation BMI It emphasizes the need for further research to explore the intricate relationship between technology and BMI focusing on opportunities and challenges By delving into how technology influences emerging business model innovations and enhances operational efficiency the publication aims to advance knowledge Inviting diverse research methods it sheds light on various ideas within the technology and BMI realm Tailored for students scholars professionals and policymakers this book contributes to the evolving field of BMI and technology

Handbook of Research on Democratic Strategies and Citizen-Centered E-Government Services Dolićanin, Ćemal, Kajan, Ejub, Randjelović, Dragan, Stojanović, Boban, 2014-11-30 Over the past few years e government has been rapidly changing the way governmental services are provided to citizens and businesses These services improve business and government exchange capability provide a new way to discover and share information and play a part in the evolution of future technologies The Handbook of Research on Democratic Strategies and Citizen Centered E Government Services seeks to address which services in e government should be provided to users and how This premier reference work gives an overview of the latest achievements in the field of e government services provides in depth analysis of and research on the development and deployment of cutting edge applications and provides insight into future trends for researchers teachers students government workers and IT professionals

Handbook of Research on Industrial Applications for Improved Supply Chain Performance García-Alcaraz, Jorge Luis, Jamil, George Leal, Avelar-Sosa, Liliana, Briones Peñalver, Antonio Juan, 2019-10-18 In the industrial world companies are always seeking competitive advantages to sustain themselves in the globalized market A

supply chain is one of these improvements that managers implement in order to stay ahead of the competition. However, certain methods of supply chains add risks such as the addition of costs, possible accidents, and economic losses. Because of this, companies are looking for techniques in which to progress their supply chain execution. The Handbook of Research on Industrial Applications for Improved Supply Chain Performance is a pivotal reference source that identifies techniques, tools, and methodologies that can improve supply chain performance and enable businesses to generate a competitive advantage in the globalized market. While highlighting topics such as material flow, route optimization, and green distribution, this publication is ideally designed for managers, executives, logistics engineers, production managers, warehouse operations managers, board directors, consultants, analysts, inventory control managers, researchers, academicians, industrial and managerial professionals, practitioners, and students looking to improve costs and quality of supply chains. **Diversity, AI, and Sustainability for Financial Growth** Margaretha van der Poll, Huibrecht, Andrew van der Poll, John, Ngwakwe, Collins Chigaemecha, 2025-01-31. In today's business landscape, the intersection of diversity, artificial intelligence (AI), and sustainability is reshaping the path to financial growth. Companies that embrace diversity in their workforce and leadership realize the competitive advantage of various perspectives, which drive innovation and foster better decision making. When combined with the potential of AI, these organizations streamline operations, enhance customer experiences, and make informed, data-driven decisions. A commitment to sustainability aligns with global trends toward environmental responsibility while opening up new markets and investment opportunities. Further exploration of the combination of diversity, AI, and sustainability will enable businesses to thrive in today's technology-driven economy. **Diversity, AI, and Sustainability for Financial Growth** provides solutions for business to remain resilient and value-driven amidst contemporary developments that challenge business stability. It explores the growing changes and turbulence in the current economic and business landscape and examines solutions for environmental sustainability, technological expansion, and diversity. This book covers topics such as cybersecurity, information technology, and sustainable development and is a useful resource for business owners, economists, computer engineers, data scientists, security professionals, academicians, and researchers. *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

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