An Introduction to Data Envelopment Analysis

A Tool for Performance Measurement

R. Ramanathan

Introduction To Data Envelopment Analysis A Tool For Performance Measurement

Mehdi Soltanifar,Mojtaba Ghiyasi,Farhad Hosseinzadeh Lotfi,Mohammadreza Shahriari

Introduction To Data Envelopment Analysis A Tool For Performance Measurement:

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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 **Encyclopedia of Business Analytics and Optimization** Wang, John,2014-02-28 As the age of Big Data emerges it becomes necessary to take the five dimensions of Big Data volume variety velocity volatility and veracity and focus these dimensions towards one critical emphasis value The Encyclopedia of Business Analytics and Optimization confronts the challenges of information retrieval in the age of Big Data by exploring recent advances in the areas of knowledge management data visualization interdisciplinary communication and others Through its critical approach and practical application this book will be a must have reference for any professional leader analyst or manager interested in making the most of the knowledge resources at their disposal **Proceedings of International Conference on Data Science and Applications** Mukesh Saraswat,Chandreyee Chowdhury,Chintan Kumar Mandal,Amir H. Gandomi,2023-02-06 This book gathers outstanding papers presented at the International Conference on Data Science and Applications ICDSA 2022 organized by Soft Computing Research Society SCRS and Jadavpur University Kolkata India from 26 to 27 March 2022 It covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing **Proceedings of the Third International Conference on Soft Computing for Problem Solving** Millie Pant,Kusum Deep,Atulya Nagar,Jagdish Chand Bansal,2014-07-08 The proceedings of SocProS 2013 serve as an academic bonanza for scientists and researchers working in the field of Soft Computing This book contains theoretical as well as practical aspects of Soft Computing an umbrella term for techniques like fuzzy logic neural networks and evolutionary algorithms swarm intelligence algorithms etc This book will be beneficial for the young as well as experienced researchers dealing with complex and intricate real world problems for which finding a solution by traditional methods is very difficult The different areas covered in the proceedings are Image Processing Cryptanalysis Supply Chain Management Newly Proposed Nature Inspired Algorithms Optimization Problems related to Medical and Health Care Networking etc **Advanced Topics in Inverse Data Envelopment Analysis** Mehdi Soltanifar,Mojtaba Ghiyasi,Farhad Hosseinzadeh Lotfi,Mohammadreza Shahriari,2025-07-11 Advanced Topics in Inverse Data Envelopment Analysis Approaches for Handling Ratio Data explores and tackles the most significant challenges encountered by researchers and practitioners in decision analysis and performance evaluation This book delves into the sophisticated realm of Ratio Data Envelopment Analysis DEA R offering a thorough examination of advanced methodologies

practical examples and insights into managing complex problems involving both non negative and negative data Filling crucial gaps in existing literature this comprehensive resource focuses on the emerging field of Inverse DEA R equipping readers with the necessary tools and knowledge to address a wide range of challenging data types This book serves as an essential guide for making informed and efficient decisions guiding researchers and graduate students in computer science applied mathematics industrial engineering and finance navigating the complexities of decision analysis in today s data driven world Offers an in depth exploration of Inverse DEA R models making it an invaluable resource for researchers seeking to understand and apply these advanced techniques Includes numerous practical examples and case studies across different industries demonstrating how Inverse DEA R can be applied to real world scenarios Highlights potential areas for further research and development within Inverse DEA R encouraging readers to explore new avenues and contribute to the advancement of the field   Data Envelopment Analysis and Effective Performance Assessment Lotfi, Farhad Hossein Zadeh,Najafi, Seyed Esmaeil,Nozari, Hamed,2016-09-01 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   **Decision Making Optimization Models for Business Partnerships** Gholam R. Amin,Mustapha Ibn Boamah,2025-06-13 Efficiency and productivity improvement are imperative for businesses to remain competitive in an increasingly dynamic marketplace While business organizations have the potential to thrive independently collaborating with others fosters a collective strength that can lead to greater innovation expanded reach and shared success Decision making optimization models for business partnerships are essential as businesses seldom have all the resources they need and thus they require alliances and partnerships with others to enable them to meet their goals Decision Making Optimization Models for Business Partnerships extends non parametric data envelopment analysis DEA and parametric econometrics approaches to better understand how economic efficiency and market competitiveness are achieved for different types of partnerships and strategic alliances Features Global contributions for a wide range of professionals and academics Invaluable resources for businesses analysts and academics interested in DEA optimization and operations research more widely Introduces readers to novel approaches models and decision making techniques on performance evaluation and business partnerships via the medium of parametric and nonparametric optimization   **Research Methodology on Data Envelopment Analysis (DEA)** Jibendu Kumar Mantri,2008 Data Envelopment Analysis DEA represents a milestone in the progression of a continuously advancing methodology for data analysis which finds extensive

use in industry society and even in education This book is a handy encyclopedia for researchers students and practitioners looking for the latest and most comprehensive references in DEA J K Mantri has specifically selected 22 research papers where DEA is applied in different fields so that the techniques discussed in this book can be used for various applications In A Bibliography of Data Envelopment Analysis 1978 2001 Gabriel Tavares states that DEA is a mathematical programme for measuring performance efficiency of organizations popularly named as decision making units DMU The DMU can be of any kind such as manufacturing units a number of schools banks hospitals police stations firms etc DEA measures the performance efficiency of these kinds of DMUs which share a common characteristic they have a non profit organization where measurement is difficult DEA assumes the performance of the DMU using the concepts of efficiency and productivity which are measured as the ratio of total outputs to total inputs The efficiencies estimated are relative to the best performing DMU which is given a score of 100% The performance of other DMUs varies between 0% and 100%   Advances in Measurement Systems Milind Sharma,2010-04-01 This book is a collection of 24 chapters concerning the developments within the Measurement Systems field of study The collection includes scholarly contributions by various authors and edited by a group of experts pertinent to Measurement Systems Each contribution comes as a separate chapter complete in itself but directly related to the book s topics and objectives The target audience comprises scholars and specialists in the field

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   Practical Data Analytics for BFSI Bharat Sikka,Dr. Priyender Yadav,Dr. Prashant Verma,2023-09-02 Revolutionizing BFSI with Data Analytics KEY FEATURES Real world examples and exercises will ground you in the practical application of analytics techniques specific to BFSI Master Python for essential coding SQL for data manipulation and industry leading tools like IBM SPSS and Power BI for sophisticated analyses Understand how data driven strategies generate profits mitigate risks and redefine customer support dynamics within the BFSI sphere DESCRIPTION Are you looking to unlock the transformative potential of data analytics in the dynamic world of Banking Financial Services and Insurance BFSI This book is your essential guide to mastering the intricate interplay of data science and analytics that underpins the BFSI landscape Designed for intermediate level

practitioners as well as those aspiring to join the ranks of BFSI analytics professionals this book is your compass in the data driven realm of banking Address the unique challenges and opportunities of the BFSI sector using Artificial Intelligence and Machine Learning models for a data driven analysis This book is a step by step guide to utilize tools like IBM SPSS and Microsoft Power BI Hands on examples that utilize Python and SQL programming languages make this an essential guide The book features numerous case studies that illuminate various use cases of Analytics in BFSI Each chapter is enriched with practical insights and concludes with a valuable multiple choice questionnaire reinforcing understanding and engagement This book will uncover how these solutions not only pave the way for increased profitability but also navigate risks with precision and elevate customer support to unparalleled heights WHAT WILL YOU LEARN Delve into the world of Data Science including Artificial Intelligence and Machine Learning with a focus on their application within BFSI Explore hands on examples and step by step tutorials that provide practical solutions to real world challenges faced by banking institutions Develop skills in essential programming languages such as Python fundamentals and SQL intermediate crucial for effective data manipulation and analysis Gain insights into how businesses adapt data driven strategies to make informed decisions leading to improved operational efficiency Stay updated on emerging trends technologies and innovations shaping the future of data analytics in the BFSI industry WHO IS THIS BOOK FOR This book is tailored for professionals already engaged in or seeking roles within Data Analytics in the BFSI industry Additionally it serves as a strategic resource for business leaders and upper management guiding them in shaping data platforms and products within their organizations The book also serves as a starting point for individuals interested in the BFSI sector Prior experience with coding tools such as Python SQL Power BI is beneficial but not required as it covers all dimensions from the basics TABLE OF CONTENTS 1 Introduction to BFSI and Data Driven Banking 2 Introduction to Analytics and Data Science 3 Major Areas of Analytics Utilization 4 Understanding Infrastructures behind BFSI for Analytics 5 Data Governance and AI ML Model Governance in BFSI 6 Domains of BFSI and team planning 7 Customer Demographic Analysis and Customer Segmentation 8 Text Mining and Social Media Analytics 9 Lead Generation Through Analytical Reasoning and Machine Learning 10 Cross Sell and Up Sell of Products through Machine Learning 11 Pricing Optimization 12 Data Envelopment Analysis 13 ATM Cash Forecasting 14 Unstructured Data Analytics 15 Fraud Modelling 16 Detection of Money Laundering and Analysis 17 Credit Risk and Stressed Assets 18 High Performance Architectures On Premises and Cloud 19 Growing Trends in the Data Driven Future of BFSI **Second National Conference on Management Science and Practice, March 9-11, 2007** ,2008 Papers presented at the conference held at Indian Institute of Technology Madras in 2007 **Quantitative Models for Performance Evaluation and Benchmarking** Joe Zhu,2013-03-09 Managers are often under great pressure to improve the performance of their organizations To improve performance one needs to constantly evaluate operations or processes related to producing products providing services and marketing and selling products Performance evaluation and benchmarking are a widely used

method to identify and adopt best practices as a means to improve performance and increase productivity and are particularly valuable when no objective or engineered standard is available to define efficient and effective performance For this reason benchmarking is often used in managing service operations because service standards benchmarks are more difficult to define than manufacturing standards Benchmarks can be established but they are somewhat limited as they work with single measurements one at a time It is difficult to evaluate an organization s performance when there are multiple inputs and outputs to the system The difficulties are further enhanced when the relationships between the inputs and the outputs are complex and involve unknown tradeoffs It is critical to show benchmarks where multiple measurements exist The current book introduces the methodology of data envelopment analysis DEA and its uses in performance evaluation and benchmarking under the context of mUltiple performance measures *Data Envelopment Analysis: Theory, Methodology, and Applications* Abraham Charnes,William W. Cooper,Arie Y. Lewin,Lawrence M. Seiford,2013-12-01 This book represents a milestone in the progression of Data Envelop ment Analysis DEA It is the first reference text which includes a comprehensive review and comparative discussion of the basic DEA models The development is anchored in a unified mathematical and graphical treatment and includes the most important modeling ex tensions In addition this is the first book that addresses the actual process of conducting DEA analyses including combining DEA and 1 parametric techniques The book has three other distinctive features It traces the applications driven evolution and diffusion of DEA models and extensions across disciplinary boundaries It includes a comprehensive bibliography to serve as a source of references as well as a platform for further develop ments And finally the power of DEA analysis is demonstrated through fifteen novel applications which should serve as an inspiration for future applications and extensions of the methodology The origin of this book was a Conference on New Uses of DEA in 2 Management and Public Policy which was held at the IC Institute of the University of Texas at Austin on September 27 29 1989 The conference was made possible through NSF Grant SES 8722504 A Charnes and 2 W W Cooper co PIs and the support of the IC Institute **Managing Money, Measurement and Marketing in the Allied Health Professions** Robert Jones,2010 High quality Allied Health delivery through a motivated committed and expert workforce depends on strong management and leadership To provide this Allied Health Profession managers need solid evidence based business skills just as much as clinical knowledge and ability This book focuses on the key management areas of money measurement and marketing as applied to the Allied Health Professions Bringing together nationally and internationally acknowledged and recognised experts from around the world it explains the finances of healthcare particularly in a cash strapped environment information and information management and the marketing of services in the broadest sense based on a robust foundation of business planning and business case development project management service level agreements and specification Report writing and presentation skills are also covered along with editors quality and leadership evaluation framework the Management Quality Matrix The information background and practical techniques covered in this book will

make it a thought provoking and indespensible resource both for managers and leaders of Allied Health Professionals and for those training future managers and leaders **Collected Papers. Volume VII** Florentin Smarandache,2022-02-01 This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013 2021 by the author alone or in collaboration with the following 122 co authors from 22 countries Mohamed Abdel Basset Abdel Nasser Hussian C Alexander Mumtaz Ali Yaman Akbulut Amir Abdullah Amira S Ashour Assia Bakali Kousik Bhattacharya Kainat Bibi R N Boyd mit Budak Lulu Cai Cenap zel Chang Su Kim Victor Christianto Chunlai Du Chunxin Bo Rituparna Chutia Cu Nguyen Giap Dao The Son Vinayak Devvrat Arindam Dey Partha Pratim Dey Fahad Alsharari Feng Yongfei S Ganesan Shivam Ghildiyal Bibhas C Giri Masooma Raza Hashmi Ahmed Refaat Hawas Hoang Viet Long Le Hoang Son Hongbo Wang Hongnian Yu Mihaiela Iliescu Saeid Jafari Temitope Gbolahan Jaiyeola Naeem Jan R Jeevitha Jun Ye Anup Khan Madad Khan Salma Khan Ilanthenral Kandasamy W B Vasantha Kandasamy Darjan Karaba evi Kifayat Ullah Kishore Kumar P K Sujit Kumar De Prasun Kumar Nayak Malayalan Lathamaheswari Luong Thi Hong Lan Anam Luqman Luu Quoc Dat Tahir Mahmood Hafsa M Malik Nivetha Martin Mai Mohamed Parimala Mani Mingcong Deng Mohammed A Al Shumrani Mohammad Hamidi Mohamed Talea Kalyan Mondal Muhammad Akram Muhammad Gulistan Farshid Mofidnakhaei Muhammad Shoaib Muhammad Riaz Karthika Muthusamy Nabeela Ishfaq Deivanayagampillai Nagarajan Sumera Naz Nguyen Dinh Hoa Nguyen Tho Thong Nguyen Xuan Thao Noor ul Amin Dragan Pamu ar Gabrijela Popovi S Krishna Prabha Surapati Pramanik Priya R Qiaoyan Li Yaser Saber Said Broumi Saima Anis Saleem Abdullah Ganeshsree Selvachandran Abdulkadir Seng r Seyed Ahmad Edalatpanah Shahbaz Ali Shahzaib Ashraf Shouzhen Zeng Shio Gai Quek Shuangwu Zhu Shumaiza Sidra Sayed Sohail Iqbal Songtao Shao Sundas Shahzadi Dragi a Stanujki eljko Stevi Udhayakumar Ramalingam Zunaira Rashid Hossein Rashmanlou Rajkumar Verma Luige Vl d reanu Victor Vl d reanu Desmond Jun Yi Tey Sel uk Topal Naveed Yaqoob Yanhui Guo Yee Fei Gan Yingcang Ma Young Bae Jun Yuping Lai Hafiz Abdul Wahab Wei Yang Xiaohong Zhang Edmundas Kazimieras Zavadskas Lemnaouar Zedam **Computer Science and Engineering in Health Services** José Antonio Marmolejo-Saucedo,Pandian Vasant,Igor Litvinchev,Roman Rodríguez-Aguilar,Jania Astrid Saucedo-Martínez,2021-09-28 This book constitutes the refereed post conference proceedings of the 5th International Conference on Computer Science and Engineering in Health Services COMPSE 2021 held in July 2021 Due to COVID 19 pandemic the conference was held virtually The 17 full papers presented were carefully reviewed and selected from 46 submissions The papers are grouped on thematic topics application of tools delivered by the COVID 19 pandemic health services computer and data science and industry 4 0 in logistics and supply chain *Intelligent Data analysis and its Applications, Volume II* Jeng-Shyang Pan,Vaclav Snasel,Emilio S. Corchado,Ajith Abraham,Shyue-Liang Wang,2014-06-05 This volume presents the proceedings of the First Euro China Conference on Intelligent Data Analysis and Applications ECC 2014 which was hosted by Shenzhen Graduate School of Harbin Institute of Technology and was held in

Shenzhen City on June 13 15 2014 ECC 2014 was technically co sponsored by Shenzhen Municipal People s Government IEEE Signal Processing Society Machine Intelligence Research Labs VSB Technical University of Ostrava Czech Republic National Kaohsiung University of Applied Sciences Taiwan and Secure E commerce Transactions Shenzhen Engineering Laboratory of Shenzhen Institute of Standards and Technology

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