

Subhash C. Ray · Subal C. Kumbhakar  
Pami Dua *Editors*

# Benchmarking for Performance Evaluation

A Production Frontier Approach

 Springer

# Benchmarking For Performance Evaluation A Production Frontier Approach

**Jesús T. Pastor, Juan Aparicio, José L.  
Zofío**



## **Benchmarking For Performance Evaluation A Production Frontier Approach:**

*Benchmarking for Performance Evaluation* Subhash C. Ray, Subal C. Kumbhakar, Pami Dua, 2015-03-25 This book provides a detailed introduction to the theoretical and methodological foundations of production efficiency analysis using benchmarking Two of the more popular methods of efficiency evaluation are Stochastic Frontier Analysis SFA and Data Envelopment Analysis DEA both of which are based on the concept of a production possibility set and its frontier Depending on the assumed objectives of the decision making unit a Production Cost or Profit Frontier is constructed from observed data on input and output quantities and prices While SFA uses different maximum likelihood estimation techniques to estimate a parametric frontier DEA relies on mathematical programming to create a nonparametric frontier Yet another alternative is the Convex Nonparametric Frontier which is based on the assumed convexity of the production possibility set and creates a piecewise linear frontier consisting of a number of tangent hyper planes Three of the papers in this volume provide a detailed and relatively easy to follow exposition of the underlying theory from neoclassical production economics and offer step by step instructions on the appropriate model to apply in different contexts and how to implement them Of particular appeal are the instructions on i how to write the codes for different SFA models on STATA ii how to write a VBA Macro for repetitive solution of the DEA problem for each production unit on Excel Solver and iii how to write the codes for the Nonparametric Convex Frontier estimation The three other papers in the volume are primarily theoretical and will be of interest to PhD students and researchers hoping to make methodological and conceptual contributions to the field of nonparametric efficiency analysis

**Benchmarking Economic Efficiency** Jesús T. Pastor, Juan Aparicio, José L. Zofío, 2022-07-12 This book unifies and extends the definition and measurement of economic efficiency and its use as a real life benchmarking technique for actual organizations Analytically the book relies on the economic theory of duality as guiding framework Empirically it shows how the alternative models can be implemented by way of Data Envelopment Analysis An accompanying software programmed in the open source Julia language is used to solve the models The package is a self contained set of functions that can be used for individual learning and instruction The source code associated documentation and replication notebooks are available online The book discusses the concept of economic efficiency at the firm level comparing observed to optimal economic performance and its decomposition according to technical and allocative criteria Depending on the underlying technical efficiency measure economic efficiency can be decomposed multiplicatively or additively Part I of the book deals with the classic multiplicative approach that decomposes cost and revenue efficiency based on radial distance functions Subsequently the book examines how these partial approaches can be expanded to the notion of profitability efficiency considering both the input and output dimensions of the firm and relying on the generalized distance function for the measurement of technical efficiency Part II is devoted to the recent additive framework related to the decomposition of economic inefficiency defined in terms of cost revenue and profit The book presents economic models for the Russell and

enhanced graph Russell measures the weighted additive distance function the directional distance function the modified directional distance function and the Hlder distance function Each model is presented in a separate chapter New approaches that qualify and generalize previous results are also introduced in the last chapters including the reverse directional distance function and the general direct approach The book concludes by highlighting the importance of benchmarking economic efficiency for all business stakeholders and recalling the main conclusions obtained from many years of research on this topic The book offers different alternatives to measure economic efficiency based on a set of desirable properties and advises on the choice of specific economic efficiency models

**Data Envelopment Analysis with R** Farhad Hosseinzadeh Lotfi, Ali Ebrahimnejad, Mohsen Vaez-Ghasemi, Zohreh Moghaddas, 2019-07-23 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

**Productivity and Inequality** William H. Greene, Lynda Khalaf, Paul Makdissi, Robin C. Sickles, Michael Veall, Marcel-Cristian Voia, 2018-02-02 The volume highlights the state of the art knowledge including data analysis of productivity inequality and efficiency analysis It showcases a selection of the best papers from the 9th North American Productivity Workshop These papers are relevant to academia but also to public and private sectors in terms of the challenges that firms financial institutions governments and individuals may face when dealing with economic and education related activities that lead to increase or decrease of productivity The volume also aims to bring together ideas from different parts of the world about the challenges those local economies and institutions may face when changes in productivity are observed These contributions focus on theoretical and empirical research in areas including productivity production theory and efficiency measurement in economics management science operation research public administration and education The North American Productivity Workshop NAPW brings together academic scholars and practitioners in the field of productivity and efficiency analysis from all over the world and this proceedings volume is a reflection of this mission The papers in this volume also address general topics as education health energy finance agriculture transport utilities and economic development among others The editors are comprised of the 2016 local organizers program committee members and celebrated guest conference speakers

**The ^AOxford Handbook of Productivity Analysis** Emili Grifell-Tatjé, C.A. Knox Lovell, Robin C. Sickles, 2018-08-07 Productivity underpins business success and national well being The Oxford Handbook of Productivity Analysis contains contributions from distinguished scholars who analyze a wide range of determinants and consequences of productivity at the levels of the individual business

and the national and international economies      *Perspectives on Ecological Degradation and Technological Progress* Yilanci, Veli, 2023-07-24 In economics researchers have stated that there is a limit to growth because natural resources are finite. However, with technological developments and the discovery of new natural resource reserves, the limits on growth and development have begun to disappear. New technologies promoting energy efficiency provide growth opportunity in new directions, and the development of technologies has a positive effect on the environment. *Perspectives on Ecological Degradation and Technological Progress* explores the economic and social impacts of technological progress on environmental degradation from a multidisciplinary perspective. Other factors that may affect environmental degradation are analyzed, and indicators that may be important for the environment are determined. Covering topics such as economic growth, ecological degradation, and environmental violations, this premier reference source is an excellent resource for economists, ecologists, government officials, sociologists, environmental engineers, and innovators, students, and educators of higher education, librarians, researchers, and academicians.

*Quantitative Models for Performance Evaluation and Benchmarking* Joe Zhu, 2014-09-11 The author is one of the prominent researchers in the field of Data Envelopment Analysis (DEA), a powerful data analysis tool that can be used in performance evaluation and benchmarking. This book is based upon the author's years of research and teaching experiences. It is difficult to evaluate an organization's performance when multiple performance metrics are present. The difficulties are further enhanced when the relationships among the performance metrics are complex and involve unknown tradeoffs. This book introduces Data Envelopment Analysis (DEA) as a multiple measure performance evaluation and benchmarking tool. The focus of performance evaluation and benchmarking is shifted from characterizing performance in terms of single measures to evaluating performance as a multidimensional systems perspective. Conventional and new DEA approaches are presented and discussed using Excel spreadsheets, one of the most effective ways to analyze and evaluate decision alternatives. The user can easily develop and customize new DEA models based upon these spreadsheets. DEA models and approaches are presented to deal with performance evaluation problems in a variety of contexts. For example, a context-dependent DEA measures the relative attractiveness of similar operations, processes, products. Sensitivity analysis techniques can be easily applied and used to identify critical performance measures. Two-stage network efficiency models can be utilized to study performance of supply chain. DEA benchmarking models extend DEA's ability in performance evaluation. Various cross-efficiency approaches are presented to provide peer evaluation scores. This book also provides an easy-to-use DEA software, DEA Frontier. This DEA Frontier is an Add-In for Microsoft Excel and provides a custom menu of DEA approaches. This version of DEA Frontier is for use with Excel 97/2013 under Windows and can solve up to 50 DMUs subject to the capacity of Excel Solver. It is an extremely powerful tool that can assist decision makers in benchmarking and analyzing complex operational performance issues in manufacturing organizations as well as evaluating processes in banking, retail, franchising, health care, public services, and many other industries.

*Contemporary Issues in*

*Sustainable Development* Tanika Chakraborty, Deep Mukherjee, Sarani Saha, 2020-12-28 This book analyzes different perspectives around sustainable development risk management and managing demand across various sectors in India. Diverse theories and analytical methods from various disciplines as well as case studies are brought together to present an in-depth study. The book discusses the challenges of achieving sustainability, the role of quantitative research to assess current scenarios and the role of policy making to bring improvements in the Indian context. It examines the socioeconomic ways of pursuing sustainable development in the areas of agriculture, climate change and energy, the environment and natural resources, health and society. It also analyzes important quantitative models for sustainability policy analysis and provides case studies to understand the practical implementations of the models. This book will be a great reference manual that covers a whole gamut of analytical techniques that are useful for students, research scholars and practitioners of economics, environmental studies, development studies, sociology, South Asian studies and public policy among others. *Engineering*

*Management* C. M. Chang, Lucy Lunevich, 2016-11-25 *Engineering Management Meeting the Global Challenges* prepares engineers to fulfill their managerial responsibilities, acquire useful business perspectives and take on the much needed leadership roles to meet the challenges in the new millennium. Value addition, customer focus and business perspectives are emphasized throughout. Also underlined are discussions of leadership attributes, steps to acquire these attributes, the areas engineering managers are expected to add value, the web-based tools which can be aggressively applied to develop and sustain competitive advantages, the opportunities offered by market expansion into global regions and the preparations required for engineering managers to become global leaders. The book is organized into three major sections: functions of engineering management, business fundamentals for engineering managers and engineering management in the new millennium. This second edition refocuses on the new strategy for science, technology, engineering and math (STEM) professionals and managers to meet the global challenges through the creation of strategic differentiation and operational excellence. Major revisions include a new chapter on creativity and innovation, a new chapter on operational excellence and combination of the chapters on financial accounting and financial management. The design strategy for this second edition strives for achieving the T-shaped competencies with both broad-based perspectives and in-depth analytical skills. Such a background is viewed as essential for STEM professionals and managers to exert a strong leadership role in the dynamic and challenging marketplace. The material in this book will surely help engineering managers play key leadership roles in their organizations by optimally applying their combined strengths in engineering and management. **Health Care**

**Benchmarking and Performance Evaluation** Yasar A. Ozcan, 2007-12-08 Hugely relevant in today's world of healthcare performance management, this comprehensive work applies the analytical framework of Data Envelopment Analysis methodology to provide health care administrators with specific tools for performance evaluation. Most important, the book provides health care practitioners and administrators with information of what is lacking in specific aspects of performance.

and then outlines the ways how these performance inadequacies can be improved

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