

# **An Introduction to Efficiency and Productivity Analysis**

## **Second Edition**

Timothy J. Coelli, D.S. Prasada Rao  
Christopher J. O'Donnell  
and George E. Battese



Springer

# An Introduction To Efficiency And Productivity Analysis

**Peter John Lloyd, Xiaoguang Zhang**



## **An Introduction To Efficiency And Productivity Analysis:**

**An Introduction to Efficiency and Productivity Analysis** Timothy J. Coelli, Dodla Sai Prasada Rao, George Edward Battese, 2012-12-06 An Introduction to Efficiency and Productivity Analysis is designed as a primer for anyone seeking an authoritative introduction to efficiency and productivity analysis. It is a systematic treatment of four relatively new methodologies in Efficiency Production Analysis: a Least Squares Econometric Production Models, b Total Factor Productivity TFP Indices, c Data Envelopment Analysis DEA, and d Stochastic Frontiers. Each method is discussed thoroughly. First, the basic elements of each method are discussed using models to illustrate the method's fundamentals, and second, the discussion is expanded to treat the extensions and varieties of each method's uses. Finally, one or more case studies are provided as a full illustration of how each methodology can be used. In addition, all four methodologies will be linked in the book's presentation by examining the advantages and disadvantages of each method and the problems to which each method can be most suitably applied. The book offers the first unified text presentation of methods that will be of use to students, researchers, and practitioners who work in the growing area of Efficiency Productivity Analysis. The book also provides detailed advice on computer programs which can be used to calculate the various measures. This involves a number of presentations of computer instructions and output listings for the SHAZAM, TFPIP, DEAP, and FRONTIER computer programs. **An**

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**Analysis** Timothy J. Coelli, Dodla Sai Prasada Rao, Christopher J. O'Donnell, George Edward Battese, 2005-07-22 Softcover version of the second edition. Hardcover incorporates a new author, Dr Chris O'Donnell, who brings considerable expertise to the project in the area of performance measurement. Numerous topics are being added, and more applications using real data, as well as exercises at the end of the chapters. Data sets, computer codes, and software will be available for download from the

web to accompany the volume An Introduction to Efficiency and Productivity Analysis, 2005 **Advanced**

**Mathematical Methods for Economic Efficiency Analysis** Pedro Macedo, Victor Moutinho, Mara Madaleno, 2023-06-21

Economic efficiency analysis has received considerable worldwide attention in the last few decades with Stochastic Frontier Analysis SFA and Data Envelopment Analysis DEA establishing themselves as the two dominant approaches in the literature. This book by combining cutting edge theoretical research on DEA and SFA with attractive real world applications offers a valuable asset for professors students researchers and professionals working in all branches of economic efficiency analysis as well as those concerned with the corresponding economic policies. The book is divided into three parts the first of which is devoted to basic concepts making the content self contained. The second is devoted to DEA and the third to SFA. The topics covered in Part 2 range from stochastic DEA to multidirectional dynamic inefficiency analysis including directional distance functions the elimination and choice translating algorithm benefit of the doubt composite indicators and internal benchmarking for efficiency evaluations. Part 3 also includes exciting and cutting edge theoretical research on e.g. robustness nonparametric stochastic frontier models hierarchical panel data models and estimation methods like corrected ordinary least squares and maximum entropy. Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency Ajibessin,

Adeyemi Abel, Vajjhala, Narasimha Rao, 2024-01-16 In today's highly competitive and rapidly evolving global landscape the quest for efficiency has become a crucial factor in determining the success of organizations across various industries. Data Envelopment Analysis (DEA) Methods for Maximizing Efficiency is a comprehensive guide that delves into the powerful mathematical tool of DEA designed to assess the relative efficiency of decision making units (DMUs) and provides valuable insights for performance improvement. This book presents a systematic overview of DEA models and techniques from fundamental concepts to advanced methods showcasing their practical applications through real world examples and case studies. Catering to a broad audience this book is designed for students researchers consultants decision makers and enthusiasts in the field of efficiency analysis and performance measurement. Consultants and practitioners will gain practical insights for applying DEA in various contexts and decision makers will be equipped to make informed decisions for maximizing efficiency. Additionally individuals with a general interest in data analysis and performance measurement will find this book accessible and informative. This book covers a wide range of topics including mathematical foundations of DEA DEA models and variations DEA efficiency and productivity measures DEA applications in various industries such as healthcare finance supply chain management environmental management education management and public sector management. **On**

**the Efficiency and Productivity Analysis of Indonesian Firms, Banks and Provincial Economies** Heru Margono, 2004

*Advances in Efficiency and Productivity Analysis* Christopher F. Parmeter, Robin C. Sickles, 2020-10-21 The volume examines the state of the art of productivity and efficiency analysis. It brings together a selection of the best papers from the 10th North American Productivity Workshop. By analyzing world wide perspectives on challenges that local economies and

institutions may face when changes in productivity are observed readers can quickly assess the impact of productivity measurement productivity growth dynamics of productivity change measures of labor productivity measures of technical efficiency in different sectors frontier analysis measures of performance industry instability and spillover effects The contributions in this volume focus on the theory and application of economics econometrics statistics management science and operational research related to problems in the areas of productivity and efficiency measurement Popular techniques and methodologies including stochastic frontier analysis and data envelopment analysis are represented Chapters also cover broader issues related to measuring understanding incentivizing and improving the productivity and performance of firms public services and industries

*Socioeconomic Analysis of Efficiency and Productivity Growth in the Resettlement Areas of Zimbabwe* Kizito Mazvimavi, 2004

Efficiency and Productivity Analysis from a System Perspective Antonio Peyrache, Maria C. A. Silva, 2021

The ^A Measurement of Productive Efficiency and Productivity Growth Harold O. Fried, C. A. Knox Lovell, Shelton S. Schmidt, 2008-02-04 This book is an accessible update to the widely hailed collection by the current editors The Measurement of Productive Efficiency Techniques and Applications OUP 1993 Over ten years of the most recent research in the changing field of efficiency and productivity analysis have been applied and the result will guide readers from the basic models to the latest cutting edge extensions

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the best papers from the 8th North American Productivity Workshop NAPW It also aims to analyze world wide perspectives on challenges that local economies and institutions may face when changes in productivity are observed The volume comprises of seventeen papers that deal with productivity measurement productivity growth dynamics of productivity change measures of labor productivity measures of technical efficiency in different sectors frontier analysis measures of performance industry instability and spillover effects These papers are relevant to academia but also to public and private sectors in terms of the challenges 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 North American Productivity Workshop brings together academic scholars and practitioners in the field of productivity and efficiency analysis from all over the world It is a four day conference exploring topics related to productivity production theory and efficiency measurement in economics management science operations research public administration and related fields The papers in this volume also address general topics as health energy finance agriculture utilities and economic development among others The editors are comprised of the 2014 local organizers program committee members and celebrated guest conference speakers

**Australian Economic Papers** ,2004      **Industrial Relations** ,2003      *International Journal of Information and Management Sciences* ,2004      **Indian Journal of Economics** ,2019      *International Journal of Production Economics* Elsevier,2004      **China in the Global Economy** Peter John Lloyd,Xiaoguang Zhang,2000 This work focuses on the theme of twin transitions occurring in the Chinese economy the transition from a centrally planned economic system to a market orientated one and from an agrarian to a modern industrialized society This book covers developments in the macroeconomy productivity and reform of state owned enterprises issues of international trade such as the management of the exchange rate the pattern of exports and the development of e commerce and problems in the agricultural sector and the environment  
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