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Dynamics of Data Envelopment Analysis

Dynamics of Data Envelopment Analysis (DEA) develops a set of nonparametric and semiparametric techniques for measuring economic efficiency among firms and nonprofit organizations. Over the past decade these techniques have been successfully implemented in different situations. As far as possible abstract mathematical treatments are avoided and emphasis placed on the statistical examples and empirical illustrations.

Data Envelopment Analysis

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 countries. It has opened up possibilities 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 multiple outputs. DEA has also been used to supply new insights into activities and entities that have been studied for years by economists and other social scientists.

Handbook on Data Envelopment Analysis

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Efficiency Models in Data Envelopment Analysis

Efficiency Models in Data Envelopment Analysis (DEA) offers a solid understanding of the methodology, its uses, and its potential. New material in this edition includes coverage of recent developments that have highlighted the strong power and the potential of the DE models.

Intertemporal Production Frontiers: With Dynamic DEA

Intertemporal Production Frontiers: With Dynamic 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 countries. It has opened up possibilities 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 multiple outputs. DEA has also been used to supply new insights into activities and entities that have been studied for years by economists and other social scientists.

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and informal discussions among the participants, which is typical of E.W.G.F.M. Meetings. It is interesting to consider the story of the Meeting. The previous locations sessions. The sessions were located at the Island of San Servolo, on the Venetian lagoon, just in front of the Doges Palace. San Servolo Island is a natural oasis, in the interconnected world economy. This volume 5 of Advances in Airline Economics includes literature surveys and original empirical research examining airline efficiency and positions the field within the strong tradition of quantitative economic research, with due attention for both the demand and supply side of the tourism industry. The Inclusive and Sustainable Industrial Development Index alternative is the Convex Nonparametric Frontier, which is based on the assumed convexity of the production possibility set and creates a piecewise linear frontier. 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 maximization principles to estimate a parametric frontier, DEA relies on mathematical programming to create a nonparametric frontier. Yet another alternative is the kernel estimation of the frontier, which is a local approximation of the production possibility set and creates a piecewise linear frontier consisting of a number of tangent hyper planes. Three of the pages in this volume provides a detailed and relatively easy-to-follow evolution of the underlying theory on nonparametric production functions and offers step-by-step instructions on the appropriate methodology to apply in different contexts and how to implement them. Of particular appeal are the instructions on how to write the codes for different SFA models on STATA, how to write a VBA Macro for replication purposes of the DEA model, and an interactive Excel model for estimating Frontier Estimation. The three other papers in this 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.

The Inclusive and Sustainable Industrial Development Index—Charles Fang Chin Cheng 2020

The measurement of Efficiency of Production—Bill Flav 2013-04-17

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Advanced Robust and Nonparametric Methods in Efficiency Analysis—Cinzia Dario 2007-04-10 Providing a systematic and comprehensive review of advanced nonparametric and robust methods, with applications for the analysis of economics and scales of scope, trade-offs in production and service activities, and explanations of efficiency differences.

Advances in Tourism Economics—Abebe Matias 2009-06-18 Advances in Tourism Economics follows the predecessor’s ‘Advances in Modern Tourism Research’ (2007) and continues to provide a resource for researchers, students and authors to start by analyzing the recent usage of a set of nonparametric economic theory in the field, which builds on powerful tools in quantitative economics, such as discrete choice models, social accounting matrices, data envelopment analysis and frontier estimation techniques. The new edition of this book covers both the mainstream and the cutting-edge topics in modern economic theory, in the same book.

Airline Efficiency—John Bittau 2010-04-10 An efficient air transport system is critical to countries attaining and sustaining healthy economics in an interconnected world economy. This volume 5 of Advances in Airline Economics includes literature surveys and original empirical research examining airline efficiency in the twenty first century.

Current Topics in Quantitative Finance—Elio Canestrilli 2012-12-06 The present volume collects a selection of revised papers which were presented at the 21st International Conference in Monetary Economics, held in Venice (Italy), on October 26-27, 1997. The Working Group was founded in September 1986 in Lisbon with the objective of providing an international forum for the exchange of information and experience; encouraging research and interaction between financial economic theory and practices of financial decision making, as well as circulating information among universities and financial institutions throughout Europe. The attendance to the Meeting was large, and the following day, the day before the Meeting, a number of more than 80 countries attended the invited lectures and 40 communications in regular sessions. The sessions were located at the Isola di San Servolo, on the Venetian lagoon, just in front of the Doges Palace. San Servolo Island is a natural oasis, in the midst of a beautiful lagoon, with an orchestra of beautiful lagoon birds. The friendly atmosphere added great benefit to the social and informal discussions among the participants, which is typical of E.W.G.F.M. Meetings. It is interesting to consider the story of the Meeting. The previous locations were held at Cyprus, Crete and Dubrovnik—former rule states of the Venetian Republic influence on the Mediterranean Sea. Therefore, that this Meeting should be harbored in the heart of the Republic itself (namely, the Saint Mark basin), was only a matter of consequence.

Efficiency of Health System Units in Africa—Kagwe Joseph Muthuri 2013-05-16 Despite sending huge sums of money on health every year the African region’s burden of disease is persistently high. Most of the countries in the region are lagging behind in achieving the health-related United Nations Millennium Development Goals (MDGs). The MDGs agree that there is a need to develop and implement strategies to improve efficiency of health systems within the African region. The focus of this study is to estimate the efficiency of health system units in Africa. A Data Envelopment Analysis is the first book of its kind on application of the data envelopment analysis technique to examine the efficiency of health system units in Africa. The book interfaces lectures with case studies to equip students and practitioners as public, economics, operations management, science, and public health with knowledge and skills for undertaking technical efficiency, cost efficiency, and total factor productivity analyses.

A Focused Issue on Building New Competences in Dynamic Environments—Aimee Hoeks 2014-10-29 Changing business environments established management ideas and practices. This volume draws on competence-based theory to identify and elaborate some important ways in which organizational competences are evolving – or evolving to respond to some fundamental forms of change in business environments.

Energy Market and Energy Transition: Dynamics and Prospects—Kai Fuch 2011-06-04

Efficiency, Market Dynamics and Industry Growth—K. Sengupta 2009-10-29 The dynamics of industry growth, technology and globalization have a dramatic impact on the market structure and world trade, and challenging the conventional equilibrium and their guiding principles. In the world of innovations and spill-over of R&D effects, various forms of non-competitive market structures have evolved in recent times. This book analyses the new paradigm of change in technology intensive industries, with an emphasis on three main areas; non-parametric models of growth, sources of industry growth, and competition dynamics. The book is divided into two parts. The first part provides methodological framework for analyzing the role of R&D investment and Stock-type technical progress, using the non-parametric methods of efficiency analysis, also known as Data Envelopment Analysis. This book is essential reading for all interested in economic theory and innovation.

Extensions and New Developments in Data Envelopment Analysis—William Wager Cooper 1996

Advances in DEA Theory and Applications—Karve Tate 2017-04-12 A key resource and framework for assessing the performance of competing entities, including Dummies Examples and Case Studies. This handbook provides a coherent overview of the latest advances in DEA and presents an up-to-date evaluation of the potential of DEA with emphasis on forecasting models. It helps readers to determine the most appropriate methodology in order to make the most accurate decisions for implementation. Written by a noted expert in the field, this text provides a review of the latest advances in DEA theory and applications to the field of forecasting. Designed for use by researchers, practitioners and policy makers, it offers a comprehensive, up-to-date and practical overview of the latest developments in DEA, including applications of DEA in secondary and tertiary education. Chapter 13 measures the relative performance of New York State school districts in the 2011-2012 academic year. Chapter 10 presents a novel use of the two-stage network DEA to compare performance indices of the international tourist hotel industry in Taiwan. Chapter 15 presents the relative performance of the civil engineering Councils in the 2011-2012 academic year. Chapter 14 provides a preface to lectures on chapters 15 and 16, which provide detailed applications of DEA in marketing. Chapter 17 shows how to link performance measurement and forecasting techniques. Chapter 19 presents a unique study that conducts a DEA research front analysis, applying a network clustering method to group the DEA literature over the period 2000 to 2014. The dynamics of industry growth, technology and globalization have a dramatic impact on the market structure and world trade, and challenging the conventional equilibrium and their guiding principles. In the world of innovations and spill-over of R&D effects, various forms of non-competitive market structures have evolved in recent times. This book analyses the new paradigm of change in technology intensive industries, with an emphasis on three main areas; non-parametric models of growth, sources of industry growth, and competition dynamics. The book is divided into two parts. The first part provides methodological framework for analyzing the role of R&D investment and Stock-type technical progress, using the non-parametric methods of efficiency analysis, also known as Data Envelopment Analysis. This book is essential reading for all interested in economic theory and innovation.

Deb Glasser 2012-12-06 To all who taught me, and to all who will. Over the past fifteen years the notions of efficiency and sustainability have, more than anything, affected the academic and public discussion concerning the intertemporal allocation of resources, especially as regards the economics of growth and environment. This treatise formally develops and counterposes these notions by means of the construct of a “trajectorial objective,” which is here developed, along with its implications, as a natural advance upon the classical scalar objective. In the course of this study it becomes clear that efficiency and sustainability are by no means identical, given that, on the one hand, is the concept for avoiding wasteful behavior, and sustainability is, on the other, as the concept for ensuring that certain critical resources, the earth’s natural resources, are maintained. Nonetheless, contrary to what may be assumed, these two concepts do not generally yield mutually exclusive solutions; in fact, they can be combined to optimize performance in one or more directions. This treatise provides an up-to-date treatment of the theory and practice of Data Envelopment Analysis (DEA), which is a nonparametric method for evaluating the efficiency of a set of operating units in the presence of multiple inputs and outputs. In chapter 13 reviews the literature of DEA models for the performance assessment of mutual funds, and chapter 9 provides a detailed description of the two-stage network DEA to compare performance indices of the civil engineering Councils in the 2011-2012 academic year. Chapter 15 presents the relative performance of the civil engineering Councils in the 2011-2012 academic year. Chapter 14 provides a preface to lectures on chapters 15 and 16, which provide detailed applications of DEA in marketing. Chapter 17 shows how to link performance measurement and forecasting techniques. Chapter 19 presents a unique study that conducts a DEA research front analysis, applying a network clustering method to group the DEA literature over the period 2000 to 2014.
Dynamics of Industry Growth

Jati Sen Gupta 2012-03-02 Economic growth of a country depends on its industries. The focus of modern growth theory is basically macroeconomics, although neoclassical models use competitive markets and the optimization behavior of households and firms in general equilibrium framework. The emphasis here is on industry growth, where the microfoundations of industry are analyzed in terms of economic efficiency. The various linkages which link firm growth with the industry growth are discerned here under various market structures both competitive and monopolistic. The role of information in facilitating market signals and allowing the adoption of new processes has been especially emphasized in this volume. Many issues of market failure and the suboptimality of competitive equilibria are due to incomplete and imperfect information structures and we need a comprehensive theory of information structures underlying the process of industry growth and its dynamics. This book will be of interest to economists studying economic and industry growth and innovation.

An Introduction to Efficiency and Productivity Analysis

Timothy J. Coelli 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.

Measurement of Productivity and Efficiency

Rubin C. Sickles 2019-03-31 Provides a comprehensive approach to productivity and efficiency analysis using economic and econometric theory.

Dynamic Efficiency and Productivity Measurement

Elvira Silva 2020-11-03 A systematic treatment of dynamic decision making and performance measurement. Modern business environments are dynamic. Yet, the models used to make decisions and quantify success within them are stuck in the past. In a world where demands, resources, and technology are interconnected and evolving, measures of efficiency need to reflect that environment. In Dynamic Efficiency and Productivity Measurement, Elvira Silva, Spiro E. Stefanou, and Alfons Oude Lansink look at the business process from a dynamic perspective. Their systematic study covers dynamic production environments where current production decisions impact future production possibilities. By considering practical factors like adjustments over time, this book offers an important lens for contemporary microeconomic analysis. Silva, Stefanou, and Lansink develop the analytical foundations of dynamic production technology in both primal and dual representations, with an emphasis on directional distance functions. They cover concepts measuring the production structure (economies of scale, economies of scope, capacity utilization) and performance (allocative, scale and technical inefficiency, productivity) in a methodological and comprehensive way. Through a unified approach, Dynamic Efficiency and Productivity Measurement offers a guide to how firms maximize potential in changing environments and an invaluable contribution to applied microeconomics.

Handbook of Research on Emergent Applications of Optimization Algorithms

Vasant, Pandian 2017-10-31 Modern optimization approaches have attracted an increasing number of scientists, decision makers, and researchers. As new issues in this field emerge, different optimization methodologies must be developed and implemented. The Handbook of Research on Emergent Applications of Optimization Algorithms is an authoritative reference source for the latest scholarly research on modern optimization techniques for solving complex problems of global optimization and their applications in economics and engineering. Featuring coverage on a broad range of topics and perspectives such as hybrid systems, non-cooperative games, and cryptography, this publication is ideally designed for students, researchers, and engineers interested in emerging developments in optimization algorithms.

Handbook of Analytical Studies in Islamic Finance and Economics

Zamir Iqbal 2020-08-10 This handbook offers a unique and original collection of analytical studies in Islamic economics and finance, and constitutes a humble addition to the literature on new economic thinking and global finance. The growing risks stemming from higher debt, slower growth, and limited room for policy maneuver raise concerns about the ability and propensity of modern economies to find effective solutions to chronic problems. It is important to understand the structural roots of inherent imbalance, persistence-in-error patterns, policy and governance failures, as well as moral and ethical failures. Admittedly, finance and economics have their own failures, with abstract theory bearing little relation with the real economy, uncertainties and vicissitudes of economic life. Economic research has certainly become more empirical, perhaps because of the lack of guidance from theory. The analytics of Islamic economics and finance may not differ from standard frameworks, methods, and techniques used in conventional economics, but may offer new perspectives on the making of financial crises, nature of credit cycles, roots of financial system instability, and determinants of income disparities. The focus is placed on the logical coherence of Islamic economics and finance, properties of Islamic capital markets, workings of Islamic banking, pricing of Islamic financial instruments, and limits of debt financing, fiscal stimulus and conventional monetary policies, inter alia. Readers with investment, regulatory, and academic interests will find the body of analytical evidence to span many areas of economic inquiry, refuting thereby the false argument that given its religious tenets, Islamic economics is intrinsically narrative, descriptive and not amenable to testable implications. Thus, the handbook may contribute toward a redefinition of a dismal science in search for an elusive balance between rationality, ethics and morality, and toward a remodeling of economies based on risk sharing and prosperity for all humanity.