

New Directions: Efficiency and Productivity



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New Directions Efficiency And Productivity

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New Directions Rolf Färe, Shawna Grosskopf, 2006-03-30 The format of this monograph is three essays which we arrived at after spending a year writing over one hundred pages of what we eventually realized was a tedious reworking of old material So we started over determined to write something new At first we thought this approach might not work as a coherent monograph which is why we chose the essay format rather than chapters As it turns out there is a common thread namely the directional distance function which also gave us our title As you shall see the directional distance function includes traditional distance functions and efficiency measures as special cases providing a unifying framework for existing productivity and efficiency measures It is also flexible enough to open up new areas in productivity and efficiency analysis such as environmental and aggregation issues That we did not see this earlier is humbling a student at a recent conference raised his hand and asked Why didn't you start with the directional distance function in the first place In deed This manuscript is intended to make up for our earlier oversights This monograph contains papers coauthored with Wen Fu Lee and Osman Zaim and one paper written by two former students Hiroyuki Fukuyama and Bill Weber We thank them for their contributions An other former student Jim Logan Logi read and critiqued the manuscript for which we are grateful

Trends and Innovations in Information Systems and Technologies Álvaro Rocha, Hojjat Adeli, Luís Paulo Reis, Sandra Costanzo, Irena Orovic, Fernando Moreira, 2020-05-18 This book gathers selected papers presented at the 2020 World Conference on Information Systems and Technologies WorldCIST 20 held in Budva Montenegro from April 7 to 10 2020 WorldCIST provides a global forum for researchers and practitioners to present and discuss recent results and innovations current trends professional experiences with and challenges regarding various aspects of modern information systems and technologies The main topics covered are A Information and Knowledge Management B Organizational Models and Information Systems C Software and Systems Modeling D Software Systems Architectures Applications and Tools E Multimedia Systems and Applications F Computer Networks Mobility and Pervasive Systems G Intelligent and Decision Support Systems H Big Data Analytics and Applications I Human Computer Interaction J Ethics Computers K Health Informatics L Information Technologies in Education M Information Technologies in Radiocommunications and N

Technologies for Biomedical Applications Proceedings of the 4th International Conference on Decision Support System Technology - ICDSST 2018 & PROMETHEE DAYS 2018 Panagiota Digkoglou, George Tsaples, Fatima Dargam, Isabelle Linden, Bertrand Mareschal, 2018-05-22 New Directions Rolf Färe, Shawna Grosskopf, 2003-11-30 The format of this monograph is three essays which we arrived at after spending a year writing over one hundred pages of what we eventually realized was a tedious reworking of old material So we started over determined to write something new At first we thought this approach might not work as a coherent monograph which is why we chose the essay format rather than chapters As it turns out there is a common thread namely the directional distance function which also gave us our title As you shall see the

directional distance function includes traditional distance functions and efficiency measures as special cases providing a unifying framework for existing productivity and efficiency measures It is also flexible enough to open up new areas in productivity and efficiency analysis such as environmental and aggregation issues That we did not see this earlier is humbling a student at a recent conference raised his hand and asked Why didn't you start with the directional distance function in the first place In deed This manuscript is intended to make up for our earlier oversights This monograph contains papers coauthored with Wen Fu Lee and Osman Zaim and one paper written by two former students Hiroyuki Fukuyama and Bill Weber We thank them for their contributions An other former student Jim Logan Logi read and critiqued the manuscript for which we are grateful

Data Envelopment Analysis Wade D. Cook, Joe Zhu, 2014-07-08 This handbook serves as a complement to the Handbook on Data Envelopment Analysis eds W W Cooper L M Seiford and J Zhu 2011 Springer in an effort to extend the frontier of DEA research It provides a comprehensive source for the state of the art DEA modeling on internal structures and network DEA Chapter 1 provides a survey on two stage network performance decomposition and modeling techniques Chapter 2 discusses the pitfalls in network DEA modeling Chapter 3 discusses efficiency decompositions in network DEA under three types of structures namely series parallel and dynamic Chapter 4 studies the determination of the network DEA frontier In chapter 5 additive efficiency decomposition in network DEA is discussed An approach in scale efficiency measurement in two stage networks is presented in chapter 6 Chapter 7 further discusses the scale efficiency decomposition in two stage networks Chapter 8 offers a bargaining game approach to modeling two stage networks Chapter 9 studies shared resources and efficiency decomposition in two stage networks Chapter 10 introduces an approach to computing the technical efficiency scores for a dynamic production network and its sub processes Chapter 11 presents a slacks based network DEA Chapter 12 discusses a DEA modeling technique for a two stage network process where the inputs of the second stage include both the outputs from the first stage and additional inputs to the second stage Chapter 13 presents an efficiency measurement methodology for multi stage production systems Chapter 14 discusses network DEA models both static and dynamic The discussion also explores various useful objective functions that can be applied to the models to find the optimal allocation of resources for processes within the black box that are normally invisible to DEA Chapter 15 provides a comprehensive review of various type network DEA modeling techniques Chapter 16 presents shared resources models for deriving aggregate measures of bank branch performance with accompanying component measures that make up that aggregate value Chapter 17 examines a set of manufacturing plants operating under a single umbrella with the objective being to use the component or function measures to decide what might be considered as each plant's core business Chapter 18 considers problem settings where there may be clusters or groups of DMUs that form a hierarchy The specific case of a set off electric power plants is examined in this context Chapter 19 models bad outputs in two stage network DEA Chapter 20 presents an application of network DEA to performance measurement of Major League Baseball

MLB teams Chapter 21 presents an application of a two stage network DEA model for examining the performance of 30 U S airline companies Chapter 22 then presents two distinct network efficiency models that are applied to engineering systems

New Directions in Development Economics Mats Lundahl, Benno Ndulu, 2005-08-10 *New Directions in Development Economics* is divided into two parts The first half considers the dilemma of growth with special reference to its environmental cost The second half focuses on the role of the state in the context of the growing dominance of the free market argument The contributors include Paul Collier Partha Dasgupta Ronald Findlay and Deepak Lal

Energy, Environment and Transitional Green Growth in China Ruizhi Pang, Xuejie Bai, Knox Lovell, 2018-04-27 This book discusses energy use and its environmental footprint in China as well as issues concerning the transitional green growth of its economy a subject of great importance in light of China s size and its impressive record of economic growth The book includes expert overviews and empirical studies prepared by internationally recognized experts in the field The empirical techniques utilized by the contributors include econometrics mathematical programming and index numbers The book will provide readers a deeper understanding of the energy and environmental issues China now faces during its transitional growth period and of the strategies available for resolving these issues The 2016 Asia Pacific Productivity Conference held in Nankai University Tianjin China from July 7 10 was organized by Nankai University s College of Economic and Social Development CESD in collaboration with the School of Economics Nankai University and Collaborative Innovation Center for China Economy The primary objective of the event was to highlight the latest developments in efficiency and productivity research

New Directions in the Soviet Economy United States. Congress. Joint Economic Committee. Subcommittee on Foreign Economic Policy, 1966

The Elgar Companion to Health Economics Andrew M. Jones, 2012 *The Elgar Companion to Health Economics* is a comprehensive and accessible look at the field as seen by its leading figures Joseph Newhouse Harvard Medical School US Acclaim for the first edition This Companion is a timely addition It contains 50 chapters from 90 contributors around the world on the topical and policy relevant aspects of health economics there is a balanced coverage of theoretical and empirical materials and conceptual and practical issues I have found the Companion very useful Sukhan Jackson *Economic Analysis and Policy* This encyclopedic work provides interested readers with an authoritative and comprehensive overview of many if not all of the current research issues in health economics Highly recommended Upper level undergraduates and above R M Mullner *Choice* This comprehensive collection brings together more than 50 contributions from some of the most influential researchers in health economics It authoritatively covers theoretical and empirical issues in health economics with a balanced range of material on equity and efficiency in health care systems health technology assessment and issues of concern for developing countries This thoroughly revised second edition is expanded to include four new chapters while all existing chapters have been extensively updated *The Elgar Companion to Health Economics Second Edition* intends to take an audience of advanced undergraduates postgraduates and researchers to the

current frontier of research by providing concise and readable introductions to key topics

Data Envelopment Analysis
Joe Zhu, 2016-03-22 This handbook compiles state of the art empirical studies and applications using Data Envelopment Analysis DEA It includes a collection of 18 chapters written by DEA experts Chapter 1 examines the performance of CEOs of U S banks and thrifts Chapter 2 describes the network operational structure of transportation organizations and the relative network data envelopment analysis model Chapter 3 demonstrates how to use different types of DEA models to compute total factor energy efficiency scores with an application to energy efficiency In chapter 4 the authors explore the impact of incorporating customers willingness to pay for service quality in benchmarking models on cost efficiency of distribution networks and chapter 5 provides a brief review of previous applications of DEA to the professional baseball industry followed by two detailed applications to Major League Baseball Chapter 6 examines efficiency and productivity of U S property liability P L insurers using DEA while chapter 7 presents a two stage network DEA model that decomposes the overall efficiency of a decision making unit into two components Chapter 8 presents a review of the literature of DEA models for the performance assessment of mutual funds and chapter 9 discusses the management strategies formulation of the international tourist hotel industry in Taiwan Chapter 10 presents a novel use of the two stage network DEA to evaluate sustainable product design performances In chapter 11 authors highlight limitations of some DEA environmental efficiency models and chapter 12 reviews 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 14 provides an introductory prelude to chapters 15 and 16 which both provide detailed applications of DEA in marketing Chapter 17 then shows how to decompose a new total factor productivity index that satisfies all economically relevant axioms from index theory with an application to U S agriculture Finally chapter 18 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 Economic Impact of Public Support to Agriculture
Virgil Ball, Roberto Fanfani, Luciano Gutierrez, 2010-07-27 Despite a gradual and sustained decline in the contribution of agriculture to the economies of the member countries of the Organization for Economic Cooperation and Development OECD the sector remains socially and politically important Although agriculture accounts for less than 2% of the gross domestic product of the OECD countries it occupies over 35% of their total land area Predominantly rural regions where agriculture remains particularly important contain almost one quarter of the population of OECD countries The past quarter century has witnessed significant changes in agricultural policies in OECD countries Although total support remains high a shift has taken place from price linked measures to direct income support most notably in the European Union Policies have been adapted to meet pressing social concerns such as ensuring food security and improving environmental quality OECD countries face major economic issues due to the ageing of their populations and the need to adapt to globalization and increasing competition from emerging economies Continued pressure to reform agricultural policies will be exerted by the

need to economize on the use of scarce public resources At the same time agriculture faces new challenges generated by climate change the greening of the economy increasing scarcity of energy and water and the demands placed on the food system by an expanding world population

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

Locally Available Energy Sources and Sustainability Antonio Colmenar Santos, David Borge Diez, Enrique Rosales Asensio, 2020-06-17 Renewable energy is electricity generated by fuel sources that restore themselves over a short period of time and do not diminish Although some renewable energy technologies impact the environment renewables are considered environmentally preferable to conventional sources and when replacing fossil fuels have significant potential to reduce greenhouse gas emissions This book focuses on the environmental and economic benefits of using renewable energy which include i generating energy that produces no greenhouse gas emissions from fossil fuels and reduces some types of air pollution ii diversifying energy supply and reducing dependence on imported fuels and iii creating economic development and jobs in manufacturing installation and more Local governments can dramatically reduce their carbon footprint by purchasing or directly generating electricity from clean and renewable sources The most common renewable power technologies include solar photovoltaic PV solar thermal wind biogas e g landfill gas wastewater treatment digester gas geothermal biomass low impact hydroelectricity and emerging technologies such as wave and tidal power Local governments can lead by example by generating energy on site purchasing green power or purchasing renewable energy Using a combination of renewable energy options can help to meet local government goals especially in some regions where availability and quality of renewable resources vary Options for using renewable energy include generating renewable energy on site using a system or device at the location where the power is used e g PV panels on a state building geothermal heat pumps biomass fueled combined heat and power and purchasing renewable energy from an electric utility through a green pricing or green marketing program where buyers pay a small premium in exchange for electricity generated locally from green power resources

New Directions for Agriculture and Agricultural Research Kenneth A. Dahlberg, 1986 Ethical and value issues The global setting resource environmental and socio economic trends The national setting past and present goals and priorities Assessing neglected dimensions Evaluative

concepts in agricultural research Emerging alternatives and their implications Where do we go from here *Modeling Data Irregularities and Structural Complexities in Data Envelopment Analysis* Joe Zhu,Wade D. Cook,2007-06-08 In a relatively short period of time data envelopment analysis DEA has grown into a powerful analytical tool for measuring and evaluating performance DEA is computational at its core and this book is one of several Springer aim to publish on the subject This work deals with the micro aspects of handling and modeling data issues in DEA problems It is a handbook treatment dealing with specific data problems including imprecise data and undesirable outputs **Handbook of Operations Analytics Using Data Envelopment Analysis** Shih-Nan Hwang,Hsuan-Shih Lee,Joe Zhu,2016-07-01 This handbook focuses on Data Envelopment Analysis DEA applications in operations analytics which are fundamental tools and techniques for improving operation functions and attaining long term competitiveness In fact the handbook demonstrates that DEA can be viewed as Data Envelopment Analytics Chapters include a review of cross efficiency evaluation a case study on measuring the environmental performance of OECS countries how to select a set of performance metrics in DEA with an application to American banks a relational network model to take the operations of individual periods into account in measuring efficiencies how the efficient frontier methods DEA and stochastic frontier analysis SFA can be used synergistically and how to integrate DEA and multidimensional scaling In other chapters authors construct a dynamic three stage network DEA model a bootstrapping based methodology to evaluate returns to scale and convexity assumptions in DEA hybridizing DEA and cooperative games using DEA to represent the production technology and directional distance functions to measure band performance an input specific Luenberger energy and environmental productivity indicator and the issue of reference set by differentiating between the uniquely found reference set and the unary and maximal types of the reference set Finally additional chapters evaluate and compare the technological advancement observed in different hybrid electric vehicles HEV market segments over the past 15 years radial measurement of efficiency for the production process possessing multi components under different production technologies issues around the use of accounting information in DEA how to use DEA environmental assessment to establish corporate sustainability a summary of research efforts on DEA environmental assessment applied to energy in the last 30 years and an overview of DEA and how it can be utilized alone and with other techniques to investigate corporate environmental sustainability questions Performance Measurement and Regulation of Network Utilities Tim Coelli,Denis Anthony Lawrence,2006-01-01 This book explores the important role that economic performance measurement is playing in the regulation of network utilities in many countries today The contributors to the book researchers from academia regulatory agencies and consulting firms address the use of efficiency measures in price regulation and in assessing the effects of past regulatory reforms Industries examined include electricity supply water supply telecommunications and airlines across a range of countries including the USA UK Norway the Netherlands Australia and New Zealand Handbook of Research on Enterprise 2.0: Technological, Social, and Organizational Dimensions

Cruz-Cunha, Maria Manuela, 2013-07-31 Workplace technology is evolving at an accelerated pace driving innovation productivity and efficiency to exceedingly high levels Businesses both small and large must keep up with these changes in order to compete effectively with fellow enterprises The Handbook of Research on Enterprise 2 0 Technological Social and Organizational Dimensions collects the most recent developments in evaluating the technological organizational and social dimensions of modern business practices in order to better foster advances in information exchange and collaboration among networks of partners and customers This crucial reference supports managers and business professionals as well as members of academia IT specialists and network developers in enhancing business practices and obtaining competitive advantage

Social Capital and Bank Performance. An International Comparison for OECD Countries, 2007 **The Impact of Climate Policy on Environmental and Economic Performance** Rolf Färe, Shawna Grosskopf, Tommy Lundgren, Per-Olov Marklund, Wenchao Zhou, 2016-07-15 Sweden has a long history of ambitious environmental energy and climate policy Due to the large amount of data available it is possible to perform statistically sound analysis and assess long term changes in productivity efficiency and technological development The data at hand together with Sweden s ambitious energy and climate policy provides a unique opportunity to shed light on pertinent policy issues The Impact of Climate Policy on Environmental and Economic Performance answers several key questions What is the effect of the CO2 tax on environmental performance and profitability of firms Does including emissions in productivity measurement of the industrial firm matter Did the introduction of the EU ETS spur technological development in the Swedish industrial firm What air pollutant is most inhibiting production when regulated Being aware and learning from the Swedish case can be very relevant for countries that are in the process of shaping their climate policy This book is of great importance to researchers and policy makers who are interested in environmental economics industrial economics and climate change

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