

Data Envelopment Analysis Methods And Maxdea Software

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Data Envelopment Analysis: Methods and MaxDEA Software

Data envelopment analysis (DEA), originally developed by Charnes A, et al (1978), is a linear programming methodology for evaluating the relative technical efficiency for each member of a set of peer decision making units (DMUs) with multiple inputs and multiple outputs It has been widely used to measure performance in many areas

A Guide to DEAP Version 2.1: A Data Envelopment Analysis ...

methods are: 1 data envelopment analysis (DEA) and 2 stochastic frontiers, which involve mathematical programming and econometric methods, respectively This paper and the DEAP computer program are concerned with the use of DEA methods The computer program FRONTIER can be used to estimate frontiers using stochastic frontier methods

DATA ENVELOPMENT ANALYSIS AND ITS APPLICATION TO ...

drawbacks of the various methods for measuring efficiency in the higher education context The ease with which data envelopment analysis (DEA) can handle multiple inputs and multiple outputs makes it an attractive choice of technique for measuring the efficiency of higher education institutions (HEIs), yet its drawbacks cannot be ignored

Data envelopment analysis - SAGE Journals

268 Data envelopment analysis 2 The basics of DEA DEA is a method for measuring efficiency of DMUs using linear programming techniques to envelop observed input-output vectors as tightly as possible (Boussofiane, Dyson, and Thanassoulis 1991) DEA allows multiple inputs-outputs to be considered at the same time without any assumption on data distribution

The use of Data Envelopment Analysis - ACAPS

This note introduces a method known as Data Envelopment Analysis (DEA) as a tool for computing priority measures for affected communities, sites or social groups. It is attractive because it circumvents some of the issues in classic index formation altogether. It avoids pre-defined indicator normalization, weights and aggregation functions in favor

Data Envelopment Analysis: Models and Extensions

8 Decision Line, May 2000 Production/Operations Management HOLLY S LEWIS, Feature Editor, Pennsylvania State University Data Envelopment Analysis: Models and Extensions Srinivas Talluri

HANDBOOK ON 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

Methods of Efficiency Analysis - Crimson Publishers

proaches namely; Data Envelopment Analysis (DEA) and Free Disposal Hull (FDH) methods [11]. However, in the field of research the most commonly practiced approach is data envelopment analysis. As an original non-parametric approach of efficiency measurement, data envelopment analysis has been introduced by Charnes [15], Cooper and Rhodes (CCR)

Data Envelopment Analysis: Theory and Applications

DATA ENVELOPMENT ANALYSIS: THEORY AND APPLICATIONS Proceedings of the 10th International Conference on DEA Data Envelopment Analysis of the efficiency frontier for the results achieved by The common weights approach is one of the most prominent methods to further

Comparison of Data Envelopment Analysis Methods Used in ...

Comparison of Data Envelopment Analysis Methods Used in Airport Benchmarking David Schaar and Lance Sherry, PhD Dept of Systems Engineering and Operations Research George Mason University Fairfax, Virginia, USA Abstract—Airport efficiency has been shown to contribute to the overall performance efficiency of the air transportation

Implementing DEA models in the R program

Data Envelopment Analysis Introduced by Charnes, Cooper and Rhodes in 1978, the Data Envelopment Analysis is an important branch of operations research, as well as of economics as evidenced by numerous publications with practical applications and theoretical developments on ...

A comparison of parametric and nonparametric estimation ...

The merits of the stochastic frontier approach and the Data Envelopment Analysis (DEA) approach have been widely discussed in the literature with the nonparametric DEA approach enveloping the data such that it conforms to economic theory. That is, the cost function is the minimum cost to produce an output bundle (Mas-Colell, Whinston, & Green

Supplier Evaluation using Data Envelopment Analysis

Supplier Evaluation using Data Envelopment Analysis Rajashekar Govindarajan Student, ECET, ASU graju@asuedu Abstract In any organization, for an effective supply chain management to operate, the purchasing function is very essential to perform effectively. It is the responsibility of purchasing managers to choose suppliers to purchase the

Technical Efficiency and Productivity of Ethiopian ...

Technical Efficiency and Productivity of Ethiopian Commercial Banks: Data Envelopment Analysis (DEA) Approach Gamachis Garamu (MSc) Department of Accounting and Finance, Faculty of Business and Economics, Mettu University, Ethiopia Abstract- Ethiopia has no capital market,

thus, the majority of

Using Data Envelopment Analysis: a Case of Universities

Using Data Envelopment Analysis: a Case of Universities Tomáš Rosenmayer 1 Abstract : The aim of this article is to analyse appropriateness and adequacy of use of Data Envelopment Analysis (DEA) in several research papers dealing with effectiveness of economy of universities The Data Envelopment Analysis is an interesting method

DP177. Alternative Methods to Examine Hospital Efficiency ...

Hospital Efficiency: Data Envelopment Analysis and Stochastic Frontier Analysis Rowena Jacobs DISCUSSION PAPER 177 ALTERNATIVE METHODS TO EXAMINE HOSPITAL EFFICIENCY: DATA ENVELOPMENT ANALYSIS AND STOCHASTIC FRONTIER ANALYSIS However, very few studies have examined whether applying different methods to the same data will affect

Improving discrimination in Data Envelopment Analysis: PCA ...

discrimination-improving methods published in the literature that do not require additional preferential information; principal component analysis applied to data envelopment analysis (PCA-DEA) and variable reduction based on partial covariance (VR) A simulation based

A Comparison of Regression Analysis and Data Envelopment ...

services they offer Data envelopment analysis (DEA) and ordinary least squares regression analysis (RA) are two alternative methods that can be used either jointly or individually to assess the comparative performance of such DMUs DEA is a linear programming based method developed relatively recently by Charnes et al'

Performance Evaluation for DNO Governance Using Data ...

Performance Evaluation for DNO Governance Using Data Envelopment Analysis Method Amin Ghafouri¹, Alireza Fereidunian^{1,2}, Hamid Lesani¹, Habib Torabi³, Payam Kharazmi³ (1) Systems and Machines Research Lab (SMRL), Control and Intelligent Processing Center of Excellence

A Dominance-Based Network Method for Ranking Efficient ...

sustainability Article A Dominance-Based Network Method for Ranking Efficient Decision-Making Units in Data Envelopment Analysis Jiyoung Lee 1 and Gyunghyun Choi 2,* 1 Department of Industrial Engineering, Hanyang University, 222 Wangsimni-ro, Seongdong-gu, Seoul 04763, Korea; bandzz@hanyangackr