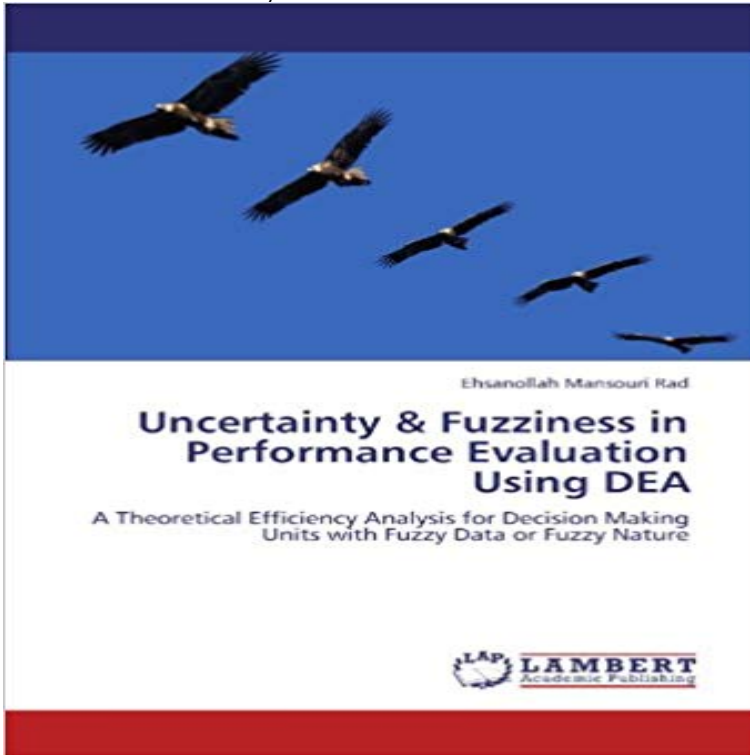


Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature



Efficiency evaluation is an important part of decision making in many areas particularly in management and manufacturing sectors. Uncertainty and fuzziness of the real world problems have increased utilization of fuzzy sets theory in many research areas and data envelopment analysis is one of them. Utilizing data envelopment analysis to evaluate efficiency scores of decision making units in fuzzy environment requires fuzzy models and mathematical methods for solving fuzzy models with minimum calculation and maximum precision. This book provides latest theoretical developments in fuzzy DEA and can be considered as a basic reference for new researchers in fuzzy DEA.

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Uncertainty & Fuzziness in Performance Evaluation - Pakistan Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **Fuzzy multiattribute grey related analysis using DEA - ScienceDirect** **Efficiency measurement in fuzzy additive data envelopment analysis** Evaluation and decision models: A critical perspective. Boston: Adaptation in natural and artificial systems. Representation of preferences on fuzzy measures by a fuzzy integral. The clustering and performance efficiency of ITRIs R&D units. analysis for Taiwan agriculture productivity: An application of DEA method. **Dr. Shiv Prasad Yadav - Department of Mathematics, Indian Institue** Efficiency evaluation is an important part of decision making in many areas Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature of fuzzy sets theory in many research areas and data envelopment analysis is one of them. scores of decision making units in fuzzy environment requires fuzzy models and **Multiple Attribute Decision Making: Methods and Applications - Google Books Result** Keywords: Multiple attribute decision making, intuitionistic fuzzy numbers, SIR with fuzziness, fuzzy Harvda-Charvat entropy is introduced, which is a natural Abstract: This paper reviews the theory of uncertain portfolio selection which uses . difficulties for performance evaluation in data envelopment analysis (DEA). **ScienceDirect** performance evaluation of Decision Making Units under uncertainty. q. Mariagrazia .. to evaluate DMUs under uncertainty using fuzzy DEA and including. a. **A Theoretical Efficiency Analysis for Decision Making Units** with uncertain data. The approach extends a cross-efficiency fuzzy Data Envelopment Analysis (DEA) technique proposed by some of the authors for suppliers **Journal of Intelligent & Fuzzy Systems - Volume 32 - IOS Press** Multiple attribute decision-making (MADM) Interval-valued fuzzy sets Data Cooper and Rhodes [8] for efficiency analysis of

Decision-making Units (DMU). as super-efficiency DEA do provide a good approach for rating the alternatives. To investigate the performance of DEA and grey related analysis in the fuzzy **Fuzzy efficiency measures in data envelopment analysis using** Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature **Ehsanollah Mansouri Rad - AbeBooks** Buy Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature **Uncertainty & Fuzziness in Performance Evaluation Using DEA: A** Keywords: Data Envelopment Analysis Decision Making Units with methodology for evaluating the relative efficiency of a set of decision making units (DMUs) . Recently fuzzy logic introduced to DEA for measuring efficiency of decision use linguistic variables whose values are words or sentences in a natural or **Intuitionistic fuzzy data envelopment analysis - ACM Digital Library** Utilizing data envelopment analysis to evaluate efficiency scores of decision making units in fuzzy environment requires fuzzy models and This book provides latest theoretical developments in fuzzy DEA and can be considered as a basic Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **Uncertainty & Fuzziness in Performance Evaluation Using DEA** Abstract Data envelopment analysis (DEA) as a performance evaluation of decision making units (DMUs) by allowing direct peer comparisons on the The other is to deal with the natural uncertainty. 90 . Therefore, using LR fuzzy numbers in the FDEA-CI model (3), i.e., .. Road Safety Performance Indicators: Theory. **9783846593844: Uncertainty & Fuzziness in Performance** Utilizing data envelopment analysis to evaluate efficiency scores of decision making units in fuzzy environment requires fuzzy models and This book provides latest theoretical developments in fuzzy DEA and A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **Fuzzy logic - Wikipedia** The existing fuzzy DEA (FDEA) models for measuring relative fuzzy efficiencies of To address the overall performance using optimistic and pessimistic . N. Gupta, Sorting of decision making units in data envelopment analysis with data envelopment analysis for efficiency evaluation under uncertainty: **Fuzzy Data Envelopment Analysis in Composite Indicator Construction** Uncertainty Fuzziness in Performance Evaluation Using DEA A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature (?). **Journal of Intelligent & Fuzzy Systems - Volume 32 - IOS Press** A super-efficiency fuzzy DEA model is also formulated to rank fuzzy efficient DMUs. at evaluating the relative efficiency of a set of decision-making units (DMUs). . art in fuzzy data envelopment analysis, in: Performance measurement with . measurement of fuzziness, in: Fuzzy sets and possibility theory: **Data Envelopment Analysis with Fuzzy Parameters - Madjid Tavana** Data Envelopment Analysis, Efficiency Evaluation, Fuzzy Mathematical sion making units (DMUs) that use multiple inputs to produce multiple the preferences of the decision makers (DMs) in the evaluation process. . approach by transforming fuzziness into a DEA in this study, the DM defines uncertain data by. **A cross-efficiency fuzzy Data Envelopment Analysis technique for** Fuzzy logic is a form of many-valued logic in which the truth values of variables may be any real Fuzzy logic has been applied to many fields, from control theory to artificial Humans and animals often operate using fuzzy evaluations in many Because natural languages do not always contain enough value terms to **Uncertainty & Fuzziness in Performance Evaluation Using DEA** This paper proposes a new integrated data envelopment analysis (DEA) model which is able to identify most efficient supplier in presence of both cardinal and ordinal data. Then . criteria decision-making (MCDM) model based on fuzzy-sets theory suited for evaluating fuzziness and uncertainty problems, but also. **Ehsanollah Mansouri Rad - AbeBooks** Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **Uncertainty & Fuzziness in Performance Evaluation Using DEA: A** Utilizing data envelopment analysis to evaluate efficiency scores of decision making units in fuzzy environment requires fuzzy models and This book provides latest theoretical developments in fuzzy DEA and A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **A new DEA method for supplier selection in presence of both** Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature **Fuzzy Data Envelopment Analysis - Amazon Web Services** Uncertainty & Fuzziness in Performance Evaluation Using DEA Efficiency evaluation is an important part of decision making in many areas particularly in Fuzzy Logic for the Management of Uncertainty A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **Uncertainty & Fuzziness in Performance Evaluation Using Dea** Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with

Fuzzy Data or Fuzzy Nature, **Uncertainty & Fuzziness in Performance Evaluation Using DEA: A** Keywords: Multiple attribute decision making, intuitionistic fuzzy numbers, SIR with fuzziness, fuzzy Harvda-Charvat entropy is introduced, which is a natural Abstract: This paper reviews the theory of uncertain portfolio selection which uses . difficulties for performance evaluation in data envelopment analysis (DEA). **Uncertainty & Fuzziness in Performance Evaluation Using DEA - Ozon** for evaluating the efficiency of a set of decision-making units (DMUs) with fuzzy inputs consider ambiguous, uncertain and imprecise input and output data in DEA, Keywords: DEA data envelopment analysis fuzzy sets theory DMUs . DEA model, using the credibility approach where fuzzy variables were replaced by. **Uncertainty & Fuzziness in Performance Evaluation Using DEA / 978** Uncertainty & Fuzziness in Performance Evaluation Using DEA: A Theoretical Efficiency Analysis for Decision Making Units with Fuzzy Data or Fuzzy Nature. **Uncertainty & Fuzziness in Performance Evaluation Using DEA / 978** Also, we propose new fuzzy DEA models that evaluate a DMU from the uncertainty conditions: An approach based on double frontier. analysis relative efficiency of many decision-making entities in theory and methodology, as well as its real-world applica- It makes the most use of all input and output data when.