عنوان مقاله:

A New Integrated Algorithm for Assessment and Optimization of Utility Sctors

محل انتشار:

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خلاصه مقاله:

This paper peresent an flexible and dynamic integrated algorithm for total assesment, ranking and optimization of utility sectors.The integrated algorithm is based on Data Envelopment analysis(DEA), Corrected Ordinalry Least Square (COLS)and stochastic Frontier Analysis (SFA) while in most of pervious research mainly there is only one type of deteministic or stochastic approach. Because of applying SFA in proposed algorithm the proposed model has the dynamic transaction whit infomation environment and therefore includes both deterministic and dynamic approach. Also because of considering both CRS-DEA (DEA 1) and VRS-DEA (DEA 2) and selection one of these two DEA version, this algorithm is flexible for ranking and optimization goals. To present aplicability of this proposed algorithm two case studies have been presented the first case study is abiut electricity distribution utilty sector in IRAN and the second case study is about telecommunication utilty sector. Inelectricity distribution case study the date are on 38 DMUs and three indicator as inputs and two as outputs is countries in 2003 are used and 9 indicators are considered which four of them are inputs and 5 are outputs.

کلمات کلیدی:

DEA.COLS,SFA,Optimization,unility sectors

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