عنوان مقاله:

Efficiency Ranking Method using DEA and TOPSIS

محل انتشار:

نهمین کنفرانس ملی تحلیل پوششی داده ها (سال: 1396)

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خلاصه مقاله:

This paper processes a unification of TOPSIS and Data Envelopment Analysis (DEA) to select the units with most efficiency. This research is a two-stage modeled signed to fully rank the organizational alternatives, where each alternative has multiple inputs and outputs. First, the new methodology based on regression analysis to seek a common set of weights is applied to determine the relative weights of the evaluation criteria .In the second stage, the extension of the Technique for Order Preference by Similarity to Ideal Solution (TOPSIS) is applied to rank the alternatives. Numerical examples are provided to illustrate the applications of the DEA models and the common set of weights in DEA ranking and evaluation DEA- TOPSIS ranking.

کلمات کلیدی:

CCR model, Common set of weights, DEA, MCDM, TOPSIS

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