عنوان مقاله:

New model for ranking based on Sum Weights Disparity Index in data envelopment analysis in fuzzy condition

محل انتشار:

مجله بین المللی تحقیقات کاربردی در مهندسی صنایع, دوره 2, شماره 2 (سال: 1394)

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خلاصه مقاله:

In this research, a new model for ranking is presented based on sum weights disparity index in data envelopment analysis in fuzzy condition. Using disparity index, the input and output of data envelopment analysis is considered according to similarity in one category and, units with the efficiency one can be ranked with this method. The new approach of this research is the evaluation of this model in uncertainty conditions and in fuzzy state. In fuzzy conditions, a new model can be provided and used when there are no definitive data and the application of this model can get closer to the actual situation. In this study, to prove the adequacy of the model, the numerical example is assessed and the results of the proposed model is compared with the results of the fuzzy BCC model; the obtained results are indicative of the superiority of the proposed model.

کلمات کلیدی:

Data Envelopment Analysis, Sum Weights Disparity Index, Fuzzy Conditions