

## عنوان مقاله:

DEA with Common Set of Weights Based on a MultiObjective Fractional Programming problem

## محل انتشار:

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## خلاصه مقاله:

Data envelopment analysis operates as a tool to appraise the relative efficiency of a set of homogenous decision making units. DEA allow each DMU to take its optimal weight in comparison to other DMUs while a similar condition is considered for other units. This feature treats the comparability of different units because different weighting schemes are used for different DMUs. In this paper, a model is presented to determine a common set of weights to calculate DMU efficiency. This model is developed based on a multi objective fractional linear programming model that considers the original DEA's results as ideal solution and seeks a set of common weights to evaluate DMUs and increases the model's discrimination power. A numerical example is solved and the proposed method's results are compared to some previous methods. This Comparison has shown the proposed method's advantages in ranking DMUs.

## کلمات کلیدی:

DEA, Common Set of Weights, Multi Objective Fractional Linear Programming, Membership Function, Ranking

## لینک ثابت مقاله در پایگاه سیویلیکا:

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