

عنوان مقاله:

Presenting a Joint multiple layer data envelopment analysis (Joint MLDEA) model for evaluating the performance of educational System

محل انتشار:

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تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

Assessing the efficiency of educational systems is vital for effective allocation of educational resources. It is clear that a single indicator may not be sufficient for effective performance management, especially for the performance evaluation of educational systems. So decision makers wish to select comprehensive sets of indicators, to present a relatively holistic evaluation using data envelopment analysis (DEA). We know that the discrimination power of DEA models will be much weakened if too many indicators are used. Hence, this paper presents a joint multiple layer data envelopment analysis (Joint MLDEA) model for assessment of educational system that utilizes hierarchical structures of indicators and evaluates the relative teaching and research efficiencies simultaneously. This model is tested using a hypothetical example. Comparing the results of this presented model with other DEA models shows the efficiency of presented model based on discrimination power even with a relatively large numbers of indicators

کلمات کلیدی:

Data Envelopment Analysis; Joint Data Envelopment Analysis; Multiple Layer Data Envelopment Analysis; Performance evaluation

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