

عنوان مقاله:

Efficiency Measurment of Network DEA with Interval Data

محل انتشار:

ششمین کنفرانس بین المللی تحلیل پوششی داده ها (سال: 1393)

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خلاصه مقاله:

Data envelopment analysis (DEA) is a non-parametric technique for evaluation of relative efficiency of decision making units described by multiple inputs and outputs. It is based on solving linear programming problems. Since 1978 when basic DEA model was introduced many its modifications were formulated. Among them are two or multi-stage models with serial or parallel structure often called network DEA models that are widely discussed in professional community in the last years. The exact known inputs and outputs are required in these DEA models. However, in the real world, the concern is systems with interval data. In this study, we suggest an approach to measure the efficiency of series and parallel systems with interval data that preserves the linearity of DEA model. Also, the interval DEA models are proposed to measure the lower and upper bounds of the efficiency of each DMU with interval data.

کلمات کلیدی:

DEA, network DEA, efficiency interval, overall efficiency, series and parallel system

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