

عنوان مقاله:

Dynamic Average-Cost Efficiency and Optimal Scale Sizes

محل انتشار:

پانزدهمین کنفرانس بین المللی انجمن ایرانی تحقیق در عملیات (سال: 1401)

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خلاصه مقاله:

Detecting optimum scale sizes of firms could be a critical perspective for directors on account of the changes of input and output measures. Moreover, there are carryovers in many processes. In the prevailing data envelopment analysis (DEA), optimal scale sizes (OSSs), average-cost efficiency (ACE) and average-revenue efficiency (ARE) of decision making units (DMUs) have been determined in a special period of time whilst we confront with dynamic processes in some examinations. Accordingly, in this study, OSSs and ACE of DMUs containing carryovers are tackled. Dynamic ACE is defined as the composite of dynamic scale and input allocative efficiencies. To clarify, a two-phased dynamic DEA-based technique is developed to examine dynamic ACE and OSSs. A numeric example is presented to illustrate the proposed technique in this research.

کلمات کلیدی:

Dynamic Data Envelopment Analysis, Dynamic Average-Cost Efficiency, Optimal Scale Size, Carry-over

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