عنوان مقاله:

An Approach for Measuring the Efficiency of Decision Making Units Based On Neural Network

محل انتشار:

سومین کنفرانس بین المللی انجمن تحقیق در عملیات ایران (سال: 1388)

تعداد صفحات اصل مقاله: 2

نویسندگان:

A. Nourmohammadi - *Department of IndustrialEngineering,IslamicAzadUniversitySouthTehranBranch,YoungResearch Club, Tehran, Iran*

M. Ranjbar-Bourani - *Department of Industrial Engineering, Islamic Azad University - South Tehran Branch, Young Research Club, Tehran, Iran*

H. Amoozad-khalili - *Faculty Member of Islamic Azad University-Noshahr Branch, Noshahr, Iran*

خلاصه مقاله:

in this article, first we describe data envelopment analysis based on virtual Ideal and AntiIdeal decision making units approach which is a robust method for efficiency measurement and ranking of decision making units. Then Artificial Neural Network (ANN) approach and some proposed methods for measuring efficiency of DMUs based on ANN are explained. Next we offer our suggested method which is compound of aforesaid methods and is inspired from TOPSIS method in MADM problem. Finally we compare all mentioned methods and show that, in addition that the proposed method has the lowest average and highest variance in measuring the decision making unit s scores, it has the highest correlation with the traditional DEA results that indicates the separation power of the proposed methodin comparison with other methods.

کلمات کلیدی:

Efficiency Measurement: Data Envelopment Analysis based on IDMU and ADMU:Artificial Neural Network

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