

عنوان مقاله:

An MOLP method for Complex-valued DEA model

محل انتشار:

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تعداد صفحات اصل مقاله: 2

نویسندگان:

Mahnaz Maghbouli - *Department of Mathematics, Islamic Azad University, Hadishahr Branch, Hadishahr, Iran*

,Khadijeh Ghaziyani - *Department of Mathematics, Ayandeghan Institute of Higher Education, Tonekabon, Iran*

,Mahdi Eyni - *Department of Mathematics, Payame Noor University, Tehran, Iran*

,Monireh Zorieh Habib - *Department of Mathematics, Islamic Azad University, Soofian Branch, Soofian, Iran*

خلاصه مقاله:

Data Envelopment Analysis(DEA) is a mathematical programming technique for evaluating decision making units(DMUs) with multiple inputs and outputs. In all standard DEA models semi positive real-valued measures are assumed, while in some real cases inputs and outputs may take complex valued. The question is related to measuring efficiency in such cases. As far as we are aware, there is not any special formulation replying the complex-valued questions. In this study Multi-Objective Linear Programming(MOLP) model has been proposed in the literature to take the complex-valued efficiency into consideration and demonstrate the applicability of the method in complex-valued situations

کلمات کلیدی:

Data Envelopment Analysis(DEA), Multi objective linear programming(MOLP), Minimax method, Complex numbers

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