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基于 G_1 -法和改进DEA的工程项目评标方法

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Tender evaluation method for engineering projects based on the method of G_1 and modified DEA

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摘要

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摘要 提出了一种基于 G_1 -法和改进DEA的工程项目评标方法,通过引入主观偏好系数,采用线性加权的方法,将 G_1 -法所确定的指标权重和改进DEA法所确定的公共权重结合起来共同确定评价指标的综合权重,并以此为基础计算各投标单位的效率指数,通过比较其大小来对投标单位进行排序。最后通过工程项目评标的实例验证了该方法的可行性和合理性,为决策者进行工程项目评标提供了一种科学实用的方法。

关键词: G_1 -法 数据包络分析 工程项目 评标

Abstract: A method of tender evaluation for engineering projects is put forward based on the method of G_1 and modified DEA. By introducing the subjective preference coefficient and using the linear weighting method, the comprehensive weights of evaluation indexes could be obtained by combining the weights determined by the method of G_1 with the public weights determined by the modified DEA, on basis of which, the efficiency indexes of bidders could be calculated and various bidders are able to be sorted by comparing the size of efficiency indexes. Finally, the case of tender evaluation for engineering projects is given to verify the feasibility and rationality of the proposed method, a scientific and practical approach is provided for the decision-makers in the tender evaluation for engineering projects.

Keywords: the method of G_1 DEA engineering project tender evaluation

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