

عنوان مقاله:

Evaluating a Green Supplier Selection Problem Considering Payment Methods Using TOPSIS Algorithm: A Case Study

محل انتشار:

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خلاصه مقاله:

Regarding growing awareness of environmental protection and continuous development in companies, green raw materials have in recent years become an important issue for organizations and suppliers in the long term. As the green aspects play an important role in organizations to make a decision, this paper presents a green supplier selection (GSS) problem including 7 criteria with 18 sub criteria. The aim of this paper is to find the best supplier among available suppliers considering several quantitative and qualitative criteria, namely the cost, the quality, the delivery, the technology capability, the environmental competency, the payment methods, and the availability of materials. Since the proposed model belongs to multi criteria decision making (MCDM) problems, this paper employs an MADM (multi-attribute decision making) method, namely TOPSIS (the technique for order of preference by similarity to ideal solution) to solve it. The SAW (simple additive weighting) is used to validate and verified the employed algorithm as well. A case study as a numerical example is employed to show the performance of the proposed strategy. Finally, the conclusion and future research are presented

کلمات کلیدی:

Green Supplier Selection, Multi-Criteria Decision-Making (MCDM), Payment Methods, TOPSIS, SAW

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