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Abstract Abstract
In today's competitive enterprise operation environment, many manufacturers are seeking to increase their production capacity without incurring additional capital investment costs. Gradually, manufacturers are turning to outsourcing as a means of satisfying this objective. Therefore, developing comprehensive sub-contractor selection procedures is of crucial concern.
Traditionally, manufacturing managers have attempted to reduce trading costs by selecting sub-contractors solely on the basis of their bid price. But this approach will encourage sub-contractors to only consider the bid price difference. Besides, this approach usually makes sub-contractors believe that the lowest bid price can be developed through the lowest manufacturing cost and neglect that the costs from product scrap, rework and delivery delay etc., may also be derived. In fact, it is not sufficient to select sub-contractors via the cost merely, the evaluation and verification criteria must be considered as well. And these criteria can be classified into quantitative and qualitative ones.
When the evaluation data have linguistic or fuzzy characteristics, the fuzzy multiple criteria decision-making approach provides an effective means of analyzing the data from both quantitative and qualitative criteria. Therefore, this research uses the fuzzy multiple criteria decision-making approach to establish a model with which to evaluate and select sub-contractors in the LCD-TV industry. Finally, a case study of the evaluation and selection of sub-contractors for company "N" in Taiwan demonstrates the feasibility of the proposed model. The proposed model can also be applied to other related industries.
Keywords: Fuzzy Multiple Criteria Decision Making, Quantitative Criteria, Qualitative Criteria, Sub-contractor
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