

Toward effective evaluation mechanism of strategic suppliers using linguistic computing approach

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Initial purchasing decisions such as make-or-buy judgment and supplier selection are decisions of strategic importance to firms. However, evaluating suppliers is complicated by the fact that various criteria must be considered in the decision-making process. It also involves the evaluation by different experts of multiple attributes, both qualitative and quantitative. A 2-tuple fuzzy linguistic computing approach is proposed to deal with heterogeneous information and information loss problems while the processes of subjective evaluation integration. The proposed approach based on the group decision-making scenario assists managers in adroit manipulation of the heterogeneity integration processes and avoids the information loss effectively.

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