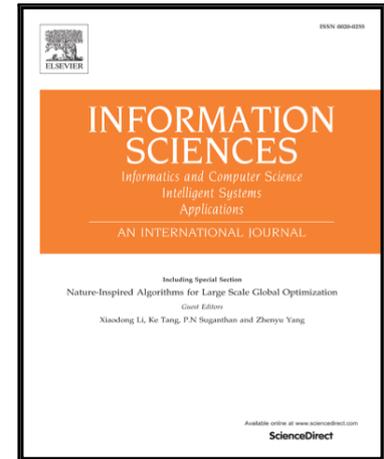


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Multiple Criteria Decision Making for Linguistic Judgments with Importance Quantifier Guided Ordered Weighted Averaging Operator

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**Highlights**

- This paper focuses on the establishment of a 'softer' decision aggregation task of multiple criteria decision making with the linguistic judgments mapped by interval type-2 fuzzy sets.
- The IQG OWA operator is extended from the Yager's OWA with linguistic quantifiers.
- A new IT2FS ranking methodology is formulated based on the proposed parametric generalized graded mean integration representation with the extended level sets of the IT2FS.
- The partial ordering set properties of the ranking methodology are rigorously discussed.
- The optimal IQG OWA IT2FS weights and the overall decision IT2FS rates are obtained. through the mixed integer linear programming models for the optimal IQG IT2FS weights.
- The overall procedure for IT2FS MCDM with the optimal IQG OWA weights is formulated.
- An MCDM problem, New Product Development Project Screening, is used for demonstrating the proposed methodology.

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