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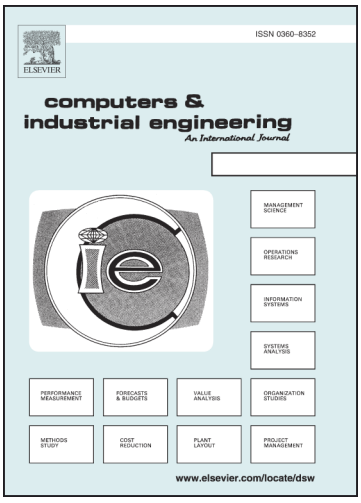

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Signed distance-based consensus in multi-criteria group decision-making with multi-granular hesitant unbalanced linguistic information

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Abstract: This study aims to deal with hesitant fuzzy linguistic multi-criteria group decision-making （MCGDM）problems with multi-granular unbalanced linguistic term sets. Firstly, a signed distance measure is developed as the support tool for hesitant fuzzy linguistic term sets. This measure is based on the ordinal semantics of linguistic terms and the possibility distribution method. In this manner, the signed distance

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