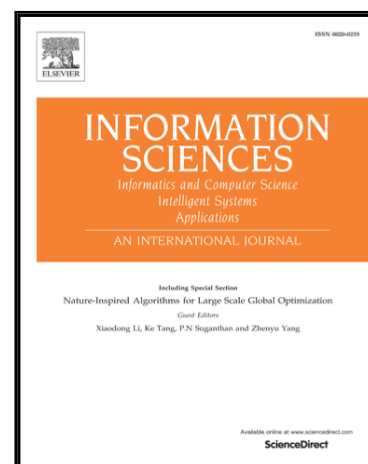


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The fuzzy saw and fuzzy TOPSIS procedures based on ordered fuzzy numbers

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**Highlights**

- A new fuzzy simple additive weighting technique (FSAW) based on ordered fuzzy numbers is presented.
- A new fuzzy TOPSIS (FTOPSIS) based on ordered fuzzy numbers is presented.
- The fuzzy SAW and fuzzy TOPSIS methods effectively handles the lack of precision in the available information and gives better results.
- The fuzzy SAW and fuzzy TOPSIS methods can deal with the representation of the information in a more direct and adequate way when we are unable to express it precisely by a score from an ordinal scale.
- The fuzzy SAW and fuzzy TOPSIS are rational and understandable and operates on linguistic values which are sometimes more adequate in decision making.

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