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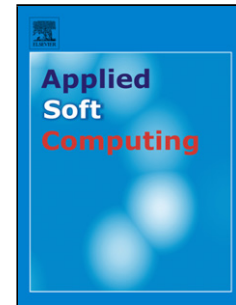
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Value determination method based on multiple reference points under a trapezoidal intuitionistic fuzzy environment

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Highlights

- We propose a trapezoidal intuitionistic fuzzy prospect function based on multiple reference points.
- The properties of the new prospect function are investigated.
- We develop a procedure for utility measurement under uncertainty.
- We utilize the proposed utility measurement to solve uncertain decision making problems.

ABSTRACT

Previous studies on decision analyses typically assume a single reference point, yet under a complex environment, decision behavior is often influenced by multiple reference points (mRPs). This paper develops a prospect value determination method based on

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