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A general evidential reasoning algorithm for multi-attribute decision analysis under interval uncertainty

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**Highlights**

- We review two evidential reasoning algorithms.
- A general analytical algorithm for IER is derived to handle interval uncertainty.
- A pair of nonlinear optimization models based on the new algorithm is established.
- We present an example for best partner selection using the new IER algorithm.
- The two reviewed algorithms are special cases of the new approach.

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