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Probabilistic dual hesitant fuzzy set and its application in risk evaluation

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## Highlights

- Propose the concept of the probabilistic dual hesitant fuzzy set (PDHFS).
- Define the basic operational laws and some aggregation operators of the PDHFS for the information fusion.
- Propose the concept of entropy for the PDHFS and develop a visual analysis method for the aggregated results.
- Apply the proposed theory and methods to the Arctic geopolitical risk evaluation.

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