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Integration of interval rough AHP and interval rough MABAC methods for evaluating university web pages

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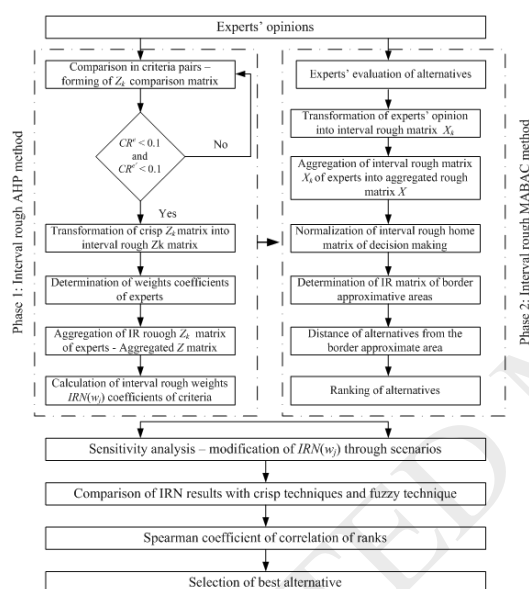
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Graphical abstract



Highlights

- This work proposes a interval rough number enabled AHP-MABAC model for web pages evaluation
- Interval rough number is introduced to deal with the imprecisions in decision-making
- The perceptions of experts are captured through interval rough numbers
- The proposed model provides novel and more effective concept for alternative ranking
- Multi-criteria techniques were compared based on interval rough and fuzzy approaches

Abstract:

Websites are one of the most widely distributed information resources. Educational institutions use this resource to ensure that the best quality of information transmission is achieved. As such, academic sites have become a very important aspect of academic institutions, one that affects their overall quality. Bearing in mind the importance of university websites' quality, the authors of this paper presented a multi-criteria model for evaluating the quality of university websites. This paper presents the hybrid IR-AHP-MABAC (Interval Rough Analytic Hierarchy Process - MultiAttributive Border Approximation Area Comparison) model. The model is adapted to group decision making as based on the application of a new approach to treating uncertainties through the use of interval rough numbers (IRN). The modified IR-AHP

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