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Development and optimization of unrestricted LR-type intuitionistic fuzzy mathematical programming problems

Vishnu Singh, Shiv Prasad Yadav

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**Highlights**

- We have defined the score and accuracy indices of LR-type IFNs.
- We have derived some results based on these indices.
- The product of unrestricted LR-type IFNs using  $\alpha$ ,  $\beta$  &  $(\alpha, \beta)$ -cuts have been defined.
- A new method for unrestricted LR-type fully IFPPs have been proposed.
- An illustrative example is given to support the proposed method.

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