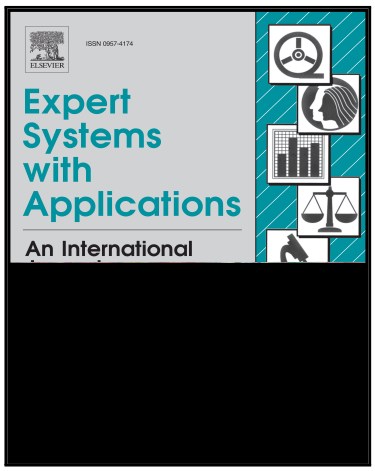

A new knowledge-based measure for Intuitionistic Fuzzy Sets and its application in multiple attribute group decision making.

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PII: S0957-4174(15)00490-X
DOI: 10.1016/j.eswa.2015.07.030
Reference: ESWA 10165

To appear in: *Expert Systems With Applications*

Received date: 1 April 2015
Revised date: 29 May 2015
Accepted date: 10 July 2015

Please cite this article as: Hoang Nguyen , A new knowledge-based measure for Intuitionistic Fuzzy Sets and its application in multiple attribute group decision making., *Expert Systems With Applications* (2015), doi: 10.1016/j.eswa.2015.07.030

Highlights

- New knowledge measure for intuitionistic fuzzy sets
- The measure evaluates both fuzziness and intuitionism related to a lack of information
- We construct entropy and similarity measures based on knowledge measure
- A new knowledge-based method for assessing expert weights and ranking of alternatives.
- Reliable measure for intuitionistic fuzzy information in multi-attribute group decision-making