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Multivariate extension principle and algebraic operations of intuitionistic fuzzy sets. (English) [Zbl 1323.03082](#)

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Summary: This paper mainly focuses on multivariate extension of the extension principle of IFs. Based on the Cartesian product over IFs, the multivariate extension principle of IFs is established. Furthermore, three kinds of representation of this principle are provided. Finally, a general framework of the algebraic operation between IFs is given by using the multivariate extension principle.

MSC:

[03E72](#) Theory of fuzzy sets, etc.

Full Text: [DOI](#)

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