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Some kinds of anti-hesitant fuzzy filters in BL-algebras. (Chinese. English summary)

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Summary: In this paper we investigated some kinds of anti-hesitant fuzzy filters of BL-algebras. By applying the hesitant fuzzy set to BL-algebras, we proposed the concepts of anti-hesitant fuzzy filters, anti-hesitant fuzzy prime filters and anti-hesitant fuzzy(positive) implication filters. The properties of these kinds of anti-hesitant fuzzy filters on BL-algebras and their equivalent characterizations were discussed.

MSC:

03B52 Fuzzy logic; logic of vagueness
03E72 Theory of fuzzy sets, etc.
03G25 Other algebras related to logic

Keywords:
BL-algebras; hesitant fuzzy set; anti-hesitant fuzzy filters; anti-hesitant fuzzy prime filters