

FUZZY DISTRIBUTIVE PAIRS IN FUZZY LATTICES

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Abstract

We generalize the concept of a fuzzy distributive lattice by introducing the concepts of a fuzzy join-distributive pair and a fuzzy join-semidistributive pair in a fuzzy lattice. A relationship among a fuzzy join-distributive pair, a fuzzy join-semidistributive pair and a fuzzy join-modular pair is proved. It is shown that for a pair of fuzzy atoms, the notions of a fuzzy join-distributive pair and a fuzzy join-semidistributive pair coincide.

Keywords: fuzzy lattices, fuzzy modular pair, fuzzy distributive pair, fuzzy semi-distributive pair.

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