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Solving systems of fuzzy relation equations by fuzzy property-oriented concepts. (English)

Zbl 1293.68258

Inf. Sci. 222, 405-412 (2013).

Summary: This paper relates systems of fuzzy relation equations with the theory of fuzzy property-oriented concept lattices. Consequently, the results obtained from this theory of concept lattices can be transformed in order to obtain properties about the former. Moreover, the algorithms developed to obtain concept lattices can be applied to obtain solutions for systems of fuzzy relation equations.

MSC:

68T30 Knowledge representation

03E72 Theory of fuzzy sets, etc.

Cited in **6** Documents

Keywords:

fuzzy relation equation; Galois connection; property-oriented concept lattice

Full Text: [DOI](#)