

عنوان مقاله:

Graphs Of lattice implication algebras based on fuzzy filter and fuzzy LI-ideal

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خلاصه مقاله:

In this paper, first the notions of fuzzy filter and fuzzy LI- ideal in a lattice implication algebra $(L, \wedge, \vee, \rightarrow, 0, 1)$ are defined. Then by means of congruence classes $\equiv_{\mathcal{F}}$ and $\equiv_{\mathcal{LI}}$ on a lattice implication algebra $(L, \wedge, \vee, \rightarrow, 0, 1)$ which induced by fuzzy filter and fuzzy LI-ideal, respectively, four types of graphs of lattice implication algebra $(L, \wedge, \vee, \rightarrow, 0, 1)$, denoted by $G_{\mathcal{F}}(L)$, $G_{\mathcal{LI}}(L)$, $G_{\mathcal{F} \cap \mathcal{LI}}(L)$ and $G_{\mathcal{F} \cup \mathcal{LI}}(L)$, respectively, are defined, some their interesting properties such as connectivity, chordality, planarity are presented.

کلمات کلیدی:

Lattice implication algebra, Chordal graph, Connected graph, Clique, Planar graph, Girth, Diameter, Fuzzy filter, Fuzzy LI- ideal

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