

FUZZY SETS IN \leq -HYPERGROUPOIDS

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To the memory of Professor Kiyoshi Iséki

Abstract

This paper serves as an example to show the way we pass from ordered groupoids (ordered semigroups) to ordered hypergroupoids (ordered hypersemigroups), from groupoids (semigroups) to hypergroupoids (hypersemigroups). The results on semigroups (or on ordered semigroups) can be transferred to hypersemigroups (or to ordered hypersemigroups) in the way indicated in the present paper.

Key words and Phrases. Hypergroupoid, fuzzy subset, left ideal, fuzzy left ideal, filter, fuzzy filter, fuzzy prime ideal.