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A note on 0-adjointed soft semigroups. (English) Zbl 1474.20146

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Summary: In this paper, we construct a Galois connection between the complete lattice of (soft) substructures of a (soft) semigroup and the complete lattice of (soft) substructures of the 0(1)-adjointed (soft) semigroup, which will be crucial in the representation of soft substructures of a soft semigroup by their crisp cousins.

MSC:

20M75 Generalizations of semigroups

20N25 Fuzzy groups

20M10 General structure theory for semigroups

20M12 Ideal theory for semigroups

06A15 Galois correspondences, closure operators (in relation to ordered sets)

Keywords:

soft semigroup; soft (left, right, quasi-, bi-) ideal; 0(1)-adjointed (soft) semigroup

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