عنوان مقاله:

Type-2 lattice-valued preorders: A common framework of lattice-valued preorders and various kinds of metrics

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خلاصه مقاله:

The aim of this paper is to introduce a concept of type-2 L-preorders for L being a complete residuated lattice. It can be considered as a common framework of L-preorders and hemimetrics, and also contains various kinds of fuzzy metrics, including Morsi fuzzy metrics, KM-fuzzy metrics and modular metrics, as natural examples. It is shown that the category of L-preordered sets can be reflectively and coreflectively embedded in that of type-2 L-preordered sets. A type-2 L-preorder can be supplied as different models for further study.

کلمات کلیدی:

Fuzzy relation, L-preorder, type-2 L-preorder, Morsi fuzzy metric, GV-fuzzy metric, modular metric, metric-type topology

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