

REPRESENTATION AND CONSTRUCTION OF
INTUITIONISTIC FUZZY \mathcal{T} -PREORDERS
AND FUZZY WEAK \mathcal{T} -ORDERS

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Abstract

In this paper, we consider the problem of representation and construction of intuitionistic fuzzy preorders and weak orders, where many fundamental representation results extending those of Ulrich Bodenhofer *et al.* are presented.

Keywords: intuitionistic fuzzy set, intuitionistic fuzzy ordering relation, intuitionistic fuzzy equivalence relation, intuitionistic fuzzy weak order, intuitionistic fuzzy t-norm, residuated lattice.

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