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Citations From References: 0 From Reviews: 0

MR4088895 18B25 Kim, Ig Sung (KR-SNGI-DI) A study on the quasi topos. (English summary) Korean J. Math. 28 (2020), no. 1, 75–87.

It is true that the category FRel of fuzzy sets and relations does not form a topos. The principal objective in this paper is to show that FRel forms a quasi topos. It is also shown that quasi power objects exist in FRel. Moreover, it is demonstrated that arbitrary small colimits exist in FRel, the bifunctor is cocontinuous, finite limits exist in FRel, epimorphisms are universally effective in FRel, all equivalence relations in FRel are efficient, generators exist in FRel and FRel is complete, so that FRel forms a vectoid. Hirokazu Nishimura

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