

عنوان مقاله:

"Note on " Fuzzy universal algebras on L-sets

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خلاصه مقاله:

This note is the continuation of the paper entitled "Fuzzy universal algebras on L-sets"(IJFS, Volume ۱۶, Number ۴, (۲۰۱۹), pp. ۱۷۵--۱۸۷) and it focuses on \mathcal{Q} -valued (universal) algebras on \mathcal{Q} -typed sets. When \mathcal{Q} is an involutive quantaloid, some basic related notions in \mathcal{Q} -valued algebra such as subalgebra, quotient algebra, homomorphism, congruence, direct product and variety etc are given and the properties of them are studied. When \mathcal{Q} is still a symmetric quantaloid, the \mathcal{Q} -valued algebra is lifted to \mathcal{Q} -valued power algebra, and the power isomorphism theorem is given. As a special case of \mathcal{Q} -valued algebra, the fuzzy universal algebra on L-set is presented naturally when L is a commutative and divisible quantale.

کلمات کلیدی:

\mathcal{Q} -typed set, universal algebra, \mathcal{Q} -valued algebra, congruence, power algebra

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