

**Hong, S. M.; Jun, Y. B.; Kim, S. J.; Park, S. H.; Meng, J.**

**Fuzzy implicative semigroups.** (English) [Zbl 0879.06009](#)

*J. Fuzzy Math.* 4, No. 4, 859-869 (1996).

The notion of implicative semigroup [cf. *W. C. Nemitz*, *Trans. Am. Math. Soc.* 117, 126-142 (1965; [Zbl 0128.24804](#)); *M. W. Chan* and *K. P. Shum*, *Semigroup Forum* 46, 7-15 (1993; [Zbl 0776.06012](#))] is extended to the fuzzy setting. The obtained results are similar to those considered for fuzzy semigroups [cf., e.g., *N. Kuroki*, *Inf. Sci.* 53, 203-236 (1991; [Zbl 0714.20052](#))]; *X.-P. Wang* and *W.-J. Liu*, *Inf. Sci.* 68, 225-231 (1993; [Zbl 0794.20065](#))].

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**MSC:**

[06F05](#) Ordered semigroups and monoids

[20N25](#) Fuzzy groups

[06F35](#) BCK-algebras, BCI-algebras (aspects of ordered structures)

**Keywords:**

normal semigroup; implicative semigroup; fuzzy semigroups