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Gradation of openness: Fuzzy topology. (English) Zbl 0762.54004
Fuzzy Sets Syst. 49, No. 2, 237-242 (1992).

Summary: In an earlier paper [ibid. 45, No. 1, 79-82 (1992; [Zbl 0756.54002](#))], we have given a new definition of fuzzy topology by introducing a concept of gradation of openness of fuzzy subsets. In order to make the concept more appropriate, in this paper we modify the definition of gradation function and then study subspaces of fuzzy topological spaces, gradation preserving maps and the category of fuzzy topological spaces and gradation preserving maps.

MSC:

[54A40](#) Fuzzy topology

Cited in **6** Reviews
Cited in **43** Documents

Keywords:

gradation of openness of fuzzy subsets; gradation function; gradation preserving maps; category of fuzzy topological spaces

Full Text: [DOI](#)

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