

**Subrahmanyam, P. V.; Sudarsanam, S. K.**

**An existence theorem for a fuzzy functional integral equation.** (English) Zbl 0888.45006  
*J. Fuzzy Math.* 5, No. 3, 723-732 (1997).

The paper deals with an integral equation for multivalued transformations using the Aumann integral [cf. *R. J. Aumann*, *J. Math. Anal. Appl.* 12, 1-12 (1965; [Zbl 0163.06301](#))] and Krasnoselskij's fixed point theorem [cf. *D. R. Smart*, *Fixed point theorems* (1974; [Zbl 0297.47042](#))]. Results are formulated in the setting of fuzzy functions [cf. *D. Dubois* and *H. Prade*, *Fuzzy sets and systems* (1980; [Zbl 0444.94049](#))].

The proof of Theorem 3.1 contains many irritating misprints.

Reviewer: [J.Drewniak](#) (Katowice)

**MSC:**

[45G10](#) Other nonlinear integral equations

[03E72](#) Theory of fuzzy sets, etc.

[28B20](#) Set-valued set functions and measures; integration of set-valued functions; measurable selections

[46S40](#) Fuzzy functional analysis

Cited in 1 Document

**Keywords:**

fuzzy functional integral equation; Hausdorff metric; multivalued mapping; Aumann integral; fixed point theorem; fuzzy functions