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A remark on the definition of fuzzy P-measures and the Bayes formula. (English)

Zbl 0655.60004

Fuzzy Sets Syst. 27, No. 3, 379-383 (1988).

The notion of separated fuzzy subsets is generalized here. Using this generalization, we present a new definition of fuzzy P-measure. The equivalence of the introduced definition to the previous one is proved. In turn, the Bayes formula is extended.

MSC:

60A99 Foundations of probability theory

03E72 Theory of fuzzy sets, etc.

28E10 Fuzzy measure theory

Cited in **2** Documents

Keywords:

fuzzy partition; fuzzy probability space; separated fuzzy subsets; new definition of fuzzy P-measure; Bayes formula

Full Text: [DOI](#)

References:

- [1] Khalili, S, Fuzzy measures and mappings, J. math. anal. appl., 68, 92-99, (1979) · [Zbl 0448.28002](#)
- [2] Piasecki, K, Extension of fuzzy P-measure, Busefal, 19, 26-41, (1984) · [Zbl 0568.60003](#)
- [3] Piasecki, K, New concept of separated fuzzy subsets, (), 193-195
- [4] Piasecki, K, Probability of fuzzy events defined as denumerable additivity measure, Fuzzy sets and systems, 17, 271-284, (1985) · [Zbl 0604.60005](#)
- [5] Piasecki, K, Fuzzy partitions of sets, Busefal, 25, 52-60, (1986) · [Zbl 0625.94022](#)

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