

**Kolesárová, Anna****Triangular norm-based addition preserving linearity of  $T$ -sums of linear fuzzy intervals.**(English) [Zbl 0934.03064](#)

Mathware Soft Comput. 5, No. 1, 91-98 (1998).

The paper examines triangular norm-based addition of trapezoidal fuzzy numbers [cf. *A. Marková*, Fuzzy Sets Syst. 85, No. 3, 379-384 (1997; [Zbl 0904.04007](#)), *R. Mesiar*, Fuzzy Sets Syst. 86, No. 1, 73-78 (1997; [Zbl 0921.04002](#))]. Families of t-norms are described such that the result of this addition is also a trapezoidal fuzzy number (e.g. every t-norm less than the Łukasiewicz t-norm).

Reviewer: [J.Drewniak \(Katowice\)](#)**MSC:**[03E72](#) Theory of fuzzy sets, etc.[26E50](#) Fuzzy real analysis[65G30](#) Interval and finite arithmeticCited in **15** Documents**Keywords:**

fuzzy number; L-R number; trapezoidal number; triangular norm; fuzzy arithmetic

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