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A NOTE ON TYPE-2 TRIANGULAR FUZZY MATRICES

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Abstract

Type-2 fuzzy sets are fuzzy sets whose membership values are fuzzy sets on the interval [0,1]. This concept was proposed by Zadeh, as an extension of fuzzy sets. Type-2 fuzzy sets possess a great expressive power and are conceptually quite appealing. In this paper, some elementary arithmetic operations on type-2 triangular fuzzy numbers are defined, and also some arithmetic operations on type-2 triangular fuzzy matrices (T2TFM) are proposed. A relevant numerical example is included.

Key Words : *Fuzzy set, Normal fuzzy set, Triangular fuzzy numbers, Type-2 triangular fuzzy numbers, Type-2 triangular fuzzy matrices.*

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