

Fuzzy Transportation Problem in Octadecagonal Fuzzy Number

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Abstract: *The transportation problem is one of the special type and the applications of linear programming problems. The usual transportation problem is unspecified that the decision maker is sure about the accurate values of transportation cost, supply and demand of the product. In some situations decision maker is not in the position to specify the objective precisely but rather than which can be specified in fuzzy concepts. We study fuzzy transportation problem (FTM) using Octadecagonal fuzzy number and its membership function. We have defined the ranking to the Octadecagonal fuzzy numbers to convert the fuzzy valued transportation to crisp valued transportation problem. To illustrate these approaches, a real life problem has been solved using the Least Cost Method.*

Keywords: Fuzzy transportation problem (FTM), Octadecagonal fuzzy number, membership function, least cost method

