

ABSTRACT

IMPROVED ASM METHOD ON FUZZY OCTAGONAL TRANSPORTATION PROBLEM

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Fuzzy transportation problem is a transportation problem that is presented with the parameters of the amount of inventory, demand, and transportation costs in uncertain or fuzzy conditions. Fuzzy transportation problem is solved by changing the parameters that make up the fuzzy numbers into crisp numbers. This final project discusses improved ASM method in solving fuzzy transportation problems with octagonal fuzzy number membership functions. Mean parameter ranking method is used to confirm the octagonal fuzzy number so that it turns into a crisp number. The next step is apply the improved ASM method to find the optimal solution to the fuzzy transportation problem. Based on the process, the result is improved ASM method provides an optimal solution to the fuzzy transportation problem.

Keywords: Fuzzy Transportation Problems, Improved ASM Method, Mean Parameter Ranking Method, Octagonal Fuzzy Number, Optimal Solution