

**AN OPTIMAL SOLUTION OF NONAGONAL FUZZY
ASSIGNMENT PROBLEM USING AVERAGE
RANKING METHOD**

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Abstract: The specific case of transportation problem is an assignment problem. The goal of optimal assignment is assign equal number of task to equal number of persons with a minimum cost (time) or maximum profit (sales). In fuzzy assignment problem, the distance (time) are fuzzy values. In this article, a new ranking procedure proposed for ranking the nonagonal fuzzy numbers. The best solution of the nonagonal fuzzy assignment problem is obtained from proposed ranking technique which is compared with existing solution.

Keywords and Phrases: Average ranking method, Existing ranking method, Nonagonal fuzzy number.

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1. Introduction

The specific case of transportation is an assignment problem. The goal of optimal assignment is assigning task to resources in which the total time (distance) is