

Study on Decision Making Problem Using Octadecagonal Fuzzy Number

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Abstract: *The aim of this article is to address the fuzzy decision making problem (FDMP) utilizing the Octadecagonal fuzzy number. We initiate the evaluation of the Payoff matrix through the Octadecagonal fuzzy number. We transform the fuzzy decision making problem into a crisp valued decision making problem by employing a ranking method for the payoff. The crisp valued decision making problem can be effectively formulated using the savage mini max regret criterion.*

Keywords: Fuzzy decision making problem (FDMP), Octadecagonal fuzzy number, membership function, Pay off matrix

