

TWO SAMPLE STATISTICAL HYPOTHESIS TEST FOR TRAPEZOIDAL FUZZY INTERVAL DATA

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ABSTRACT

Trapezoidal fuzzy numbers have numerous advantages over triangular fuzzy numbers as they have more generalized form. In this paper, two sample statistical test of hypothesis for means in normal population with interval data is given. The decision rules whether to accept or reject the null hypothesis or alternative hypothesis are given. Using numerical example, the test procedure is illustrated. The proposed test procedure has been extended to fuzzy valued statistical hypothesis testing for trapezoidal interval data.

KEYWORDS: Fuzzy Numbers, Trapezoidal Fuzzy Number (TFN), Trapezoidal Interval Data, Test of Hypothesis, Confidence Limits, Two Sample t - test