

## **ABSTRACT**

### ***TRAPEZOIDAL FUZZY ANALYTIC HIERARCHY PROCESS METHOD FOR EVALUATING SUPPLIER SELECTION***

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The Trapezoidal Fuzzy AHP method is a combination of the Trapezoidal Fuzzy method and the AHP method using the Trapezoidal Fuzzy Number. This study aims to evaluate supplier selection using the Trapezoidal Fuzzy AHP method. Evaluation of supplier selection used by the company to achieve competitive advantage, because it relates to the ability to supply and provide short deliveries, as well as production continuity. Evaluation of supplier selection based on the quality of the product, materials offered, price and timeliness of delivery. This research was conducted on AW Frozen Food which is a supplier of frozen food. From the numerical simulation results, the best supplier in AW Frozen Food is PT. So Good Food which has a priority weight of 0.477 (47.7%).

**Keywords:** AHP, Supplier Selection Evaluation, Trapezoidal Fuzzy AHP, Trapezoidal Fuzzy Number.