

## **ABSTRACT**

***DECISION SUPPORT SYTEM USING AHP AND ELECTRE METHOD  
FOR DETERMINING SELECTION OFFEASIBILITY OF RASKIN  
REPLACEMENT FOOD VOUCHER RECEIVER  
(Case Study Sondakan Kelurahan, Surakarta)***

**By**

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Poverty is a problem that has hitherto been considered to hinder national development and has not been resolved in Indonesia. One of the efforts of the government to overcome this problem is with OPK or Special Market Operations, which in 2002 was renamed RASKIN or Poor Rice and in 2017 it was replaced again with food vouchers. Currently, the decision-making process for determining the recipient of food vouchers is still very manual, so it is considered less optimal and less efficient.

This research was built using the AHP and ELECTRE methods, where later the weighting of the criteria was carried out using the AHP method while the ranking of food voucher recipients was carried out using ELECTRE method. The criteria this study include: employment, income, education, number of dependents, building status, building area, building condition, type of floor, type of wall, electrical power, water source and sanitary facilities.

Based on the results, it was found that using the system to determine the priority of prospective food voucher recipients can run well, as well as data processing according to the AHP method. And the final result obtained in ranking using ELECTRE method are some approaching the same as what was produced by the analyst team, although there are also different things, this is because the ELECTRE method compares the criteria of each candidate for food voucher recipients with the process the aggregate of concordance and discordance, which is then sought for the most dominant alternative among other candidates.

**Keyword:** AHP, ELECTRE, Food voucher, Decision Support System.