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Abstract: The scholarship recipients should ideally be given to the appropriate students. Many methods have been widely used to assist the school management in deciding the scholarship recipients. However, such methods do not give additional information and other methods of comparison. The purpose of this research is to provide a systematic and objective scholarship selection recommendation system and using sensitivity analysis to compare the two decision support methods used, i.e. the Simple Additive Weighting and the Weighted Product methods. The Simple Additive Weighting method provides the highest assessment results, namely alternatives with a preference value of 13.27. The Weighted Product method provides the highest assessment results, namely alternatives with a preference value of 0.046. The results of the sensitivity analysis show that the total change value of the Simple Additive Weighting method was 6%, while in the Weighted Product method the total change value was 0.2%. Therefore, the sensitivity analysis showed that the Simple Additive Weighting method better than Weighted Product in determining the scholarship recipient recommendation because it has a greater total change value.

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I. Introduction

Scholarships are a form of a grant in the form of money given to students to be used for tuition fees and other costs [1]. Some countries provide scholarships, for example in Indonesia, every citizen has the right to receive instruction, which is stipulated in the 1945 Constitution Article 31 (1). The scholarship program has been carried out by every educational institution in Indonesia, from elementary school to middle and higher school level. For higher-level education, there are several types of scholarships offered, namely: (1) scholarships given to students who have increased learning achievement, and (2) scholarships given to underprivileged students.

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