MULTI CRITERIA DECISION MAKING FOR STUDENT SCHOLARSHIP SELECTION USING NEUTROSOPHIC ANALYTIC HIERARCHY PROCESS (NAHP) METHOD

SHAFIKA NURASYIKIN BINTI SENIK
NURUL SYAWANIE BINTI MZELAN

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Universiti Teknologi Mara

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DECLARATION BY CANDIDATE

We certify that this report and the research to which it refers is the product of my own work and that any idea or quotation from the other people, published or otherwise are fully acknowledge in accordance with the standard referring practices of the discipline.

NURUL SYAWANIE BINTI MZELAN

(2016299124)

SHAFIKA NURASYIKIN BINTI SENIK

(2016284342)

JULY 11, 2019

ABSTRACT

Biasiswa Kecil Persekutuan is one of initiative by the Malaysia Government to help ambitious secondary school students reach their fullest potential. Currently, the decision to determine qualified students to receive scholarship in secondary school has been conducted manually. Unfair selection may occur due to the huge number of applicants and also limited quota, as well as the various criteria used in the selection process. Therefore, this research adopts the Neutrosophic Analytic Hierarchy Process (NAHP) to construct a student scholarship selection model where three criteria has been considered which are academic performance, family background and co-curriculum activities. The weight of each criteria and sub-criteria will be calculated using NAHP. The results show that NAHP can be used to rank the most suitable student to receive scholarship in descending order.

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