
An intuitionistic fuzzy VIKOR model for student-employee selection in universities

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Abstract: This study aims to propose an MCDM approach for a real case in a group decision-making environment where intuitionistic fuzzy (IF) VIKOR method with seven criteria developed and evaluated by a group of three scholars has been applied to nine candidates for a part time student employee selection problem in a state university from an emerging country with the highest rate of dropouts in 2019 mainly due to financial burdens associated with the higher education. It reveals that the 'supervisor's advice' is the most important criterion to be employed as a student to work part time while his/her 'competencies' are the second most one. The criteria regarded as the lowest level of importance have been determined as his/her 'family/roommate(s) support' and 'income level'. Based on such criteria, the candidate of A1 is regarded as the most suitable one.

Keywords: personnel selection; employee selection; student employment; intuitionistic fuzzy; VIKOR; MCDM.

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