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New AHP Improvement using COMET Method Characteristic to Eliminate Rank Reversal Phenomenon

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Advance—Rank Reversal in Multi-Criteria Decision Making, Advance—Rank Reversal in Multi-Criteria Decision Making, and advanced and advanced and advanced and advanced and teresult is ranked. The evaluation of the weight of criteria, which are established based on whether or not a decision maker consider the result is ranked. The evaluation of the weight of criteria, which are established based on whether or not a decision maker considers has been advanced and created new methods for distinction in NCFM. Changes in decision result ranking culled rank reversals to meeting the properties of the result of the properties of the properties of the properties of the properties of the properties. The Ambelies Henricht Process Method (AIIP) as the edical Decision support Maker's (DMN) operators better the properties. The Ambelies Henricht Comment of the properties of the properties. The properties of the criteria or any other properties of the propert

Keywords— Rank reversal, elimination, C-AHP, AHI

Introduction

Multi-Criteria Decision Másing (MCDM) Alternative muska just affected by the weight given by the DMs to the criteria. The main methods of MCDM such as TOPSIS, ELECTRE, PROMETHEE, APPL and their combination, have been erficient in accordance to the occurrence of a problem calcaled Rank Reversal Personneron (RSP) [1]. Rank reversal is a phenomenon where the alternative's order of preference is a phenomenon where the alternative's order of preference is alternative is deleted from a decision problem. A runk reversal occurs when a new alternative has been added or an old alternative indirect from a decision problem. A runk reversal occurs when a new alternative has been added or an old alternative elimited from decisions, and the order of the problem of the problem of the problem of the problem of the problem. first observed a change in making in the AHP [2]. One of the most important critical for selecting the MCDM method is the phenomenon of rank reversal. There has been no answer to the question of a shift in rank as far as MCDM as concerned. Therefore, and the making the control of the control of the theoretical control of the control of the control of the making the control of the control of the control of the MCDM context. Consequently, to obtain a valid result, DM using MCDM methods should be familiar with rank reversal phenomenon challenges. Although a lot of researcher declare RRP is undersiable and unwanted because it indicates unreliability in the MCDM approach, in the research about sustainable material selection, the research result showed the there was no wy to confirm whether the number of options and critical has a preference on the overall PC.

There have been many studies ragarding RBP, which tries to eliminate that revental using urions methods for the past II years. In 2014, a framework for the experiments to determin the cause of rank revental in an MCDM Method was done the result is a modification of a method with a robust combination are interested in the control of the result is a modification of a method with a robust combination are represent flavor perference relationship based on additive consistency for addressing RBP, there were also new method that use proximity sundeced values and note demonstrated their investigation into potential causes of rank reversal was carrier out in 2018, which indicates that perference followed by ranking score aggregation is one-flaued to the result of its aggregation of score has been proposed in some research to describe and illustrate the phenomenon of rank reversal using numerical examples. Compared to other tested methods, the control of the result of the resul

Analytical Hierarchy Process (AHP) as the method tha applied for the last 25 years in many MCDM decision-making

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