Multi-criteria Decision Support System for Purchasing Luxury Cars using NSFDSS Method

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Abstract

Multi-criteria decision-making or multi-criteria decision analysis is a sub-discipline of operations research that explicitly considers multiple criteria in decision-making environments. Whether in our daily lives or professional settings, there are typically multiple conflicting criteria that need to be evaluated in making decisions. In our daily lives, we usually weight multiple criteria implicitly and we may be comfortable with the consequences of such decisions that are made based on only intuition. On the other hand, when stakes are high, it is important to properly structure the problem and explicitly evaluate multiple criteria [1].The proposed system lets the user perform NSFDSS operation with the user-selected decision criteria, the user-connected attributes of the cars for a certain decision criteria and the user-specified order ranks for certain attributes. As a result, the user will be able to see the list of cars sorted by the rating according to the levels of relevancy that satisfied the user inputs which are described in above.