ABSTRACT

In recent years, the technique about data mining has become one of the most popular research subjects, and there is a popular issue to find the association rules from database transactions. The association rules that must happen only among the data that satisfy the minimum support and the minimum confidence is set by the user's. The traditional association rule algorithm establishes a minimum support and minimum confidence only, so it cannot discover the rule in which the support is low but the confidence is high. For preventing this problem effectively, the scholar putting forward Relative Support Apriori Algorithm to resolve this problem. But the threshold is given arbitrarily with no reason. The first support and the second support of the Relative Support Apriori Algorithm also is such. In this research, we will try to modify the threshold by a new method. The first support is given with the Mean Itemset Divide Method first, again the second support is given with the first support and database item characteristics, as the profit of the merchandise. Finally, we produce some of random data source for our research, and mine association rules with Double Threshold. We evaluate the performance of the proposed algorithm by comparing it with Apriori algorithm for discovering the association rules for the future work.

Keywords : Data Mining、Association Rules、Relative Support Apriori Algorithm、Threshold、Support、Confidence、Mean Itemset Divide Method、Double Threshold.


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