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Abstract
In the wake of the 21st century, information science and technology has already totally got involved in our lives. With the ever-growing progress of science and technology of information in recent years, the storing amount of materials is accumulating rapidly, excavating out potentially and useful information and knowledge from the huge database, this process is generally called “Data Mining”. It is from the large storage amount that the materials are mined, it functions as follows or more: association rule, sequence, clustering, classification, and forecasting etc.. The data mining can be applied to each field extensively while association rules are most often used for analysis. The algorithm related to association rules fall into two categories according to the needs of producing candidate itemsets or not, mainly Frequent-Pattern tree and Apriori-like approach. The main difference is that Frequent-Pattern tree does not produce candidate itemsets; it compresses the database within the structure of Frequent-Pattern tree to prevent time-consuming database from search work. The latter is the approach with needs to need to produce candidate itemsets.

The purpose of this research is to apply the theory of Frequent-Pattern tree, and through Boolean Operation and method that the key word mining, is in the efficiency comparative testing with modified algorithm, in hopes of improving on accelerated data mining is efficiency and time. The Frequent-Pattern tree algorithm would be applied in ever-altered data mining, with expection to launch new data mining with less time spent after large work of database search effort.
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