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Abstract
n the rapid advancing information technology, our living standard has been raising increasingly. Humans can not afford to live without information technology. With the fast change of information technology and the fast growth of trades, that makes transitional database become complexity and also makes it growth quickly. Hence, searching for useful information in a huge database efficiently becomes crucial and the process for data searching is called data mining. Data mining technology can widely apply in many fields, and association rules is one of the popular methods in data analysis. At this time, association rules can be categorized tow kind of algorithms: one does not require producing candidate itemsets during process likes Frequent-Pattern algorithm, another require producing candidate candidate itemset during process likes Apriori-like algorithm. The FP-tree algorithm will be more faster than Apriori-like algorithm because it use a data structure to store and compress the transactions of database to avoid redundant data searching in database. Generalized association rules is very similar to association rules. The main difference between the tow methods is in generalized association rules methods add taxonomies idea, that makes the algorithm apply more widely and more conform with business needing.
The purpose of this thesis is to apply FP-tree（Frequent-Pattern tree）to be the base and modify it in order to build a new data structure that just need scan database one time to mining frequent itemsets, we called “D-tree”. We also modify this D-tree algorithm and FP-tree algorithm to apply to mining generalized association rules. And we purpose two algorithm “GFP-tree” and “GD-tree”.
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