Abstract

Rare Association rule is an association rule consisting of rare items. Frequent Pattern (FP)-growth is an approach for utilizes the preceding knowledge providing by the user at the time of input and discovers frequent patterns with a two scan on the transactional dataset. We are presented a CP-tree (Compact-pattern tree), that capture database information with one scan (Insertion phase) and provided the same mining performance as the FP-growth method (Restructuring phase) by dynamic tree restructuring process. CP-tree can give functionalities for interactive and incremental mining with single database scan with our CP-tree outperforms in denominate of both execution time and memory requirements. Hence, we are going to present a generated MIS-tree based on CP-tree.

References

- R. Uday Kiran, P. Krishna Reddy, IN: DASFAA-2010, "Mining Rare Association Rules in the Datasets with Widely Varying Items' Frequencies."
An Enhanced Method to Mine Rare Item Sets using Multiple Item Sets Support based on CP-Tree

- Weimin Ouyang, Qinhua Huang, Mining Direct and Indirect Association Patterns with Multiple Minimum Supports; H: IEEE-2010.

**Index Terms**

Computer Science  
Information Sciences

**Keywords**

Data mining  
association rule mining  
rare item sets  
frequent pattern  
MCCFP-growth  
MIS CP-tree.