Abstract

Data mining techniques comprises of Clustering, Association, Sequential mining, Classification, Regression and Deviation detection Association Rule mining is one of the utmost ubiquitous data mining techniques which can be defined as extracting the interesting correlation and relation among huge amount of transactions. Many applications engender colossal amount of operational and behavioral data. Copious effective algorithms are proposed in the literature for mining frequent itemsets and association rules. Integrating efficacy considerations in data mining tasks is reaping popularity in recent years. Business value is enhanced by certain association rules and the data mining community has acknowledged the mining of these rules of interest since a long time. The discovery of frequent itemsets and association rules from transaction databases has aided many business applications. To discover the concealed knowledge from these data association rule mining can be applied in any application. A comprehensive analysis, survey and study of various approaches in existence for frequent itemset extraction, association rule mining with efficacy contemplations have been presented in this paper.

References

- Jiawei Han & Michelien Kamber, Edition 2003. "Data Mining: Concepts &
A Survey on Frequent Itemset Mining with Association Rules

- M. S. Chen, J. Han and P. S. Yu, 1996. "Data Mining: An overview from a database perspective", IEE Transactions on Knowledge and Data Engineering.
- Y. F. Jiawei Han, 1995. "Discovery of multiple-level association rules from large databases", In Proc. of the 21St International Conference on Very Large Databases (VLDB), Zurich, Switzerland.
- Y. Fu, 1996. "Discovery of multiple-level rules from large databases".
sets of items in large databases"; in proceedings of the ACM SIGMOD Int’l Conf. on Management of data, pp. 207-216.
- Jiawei Han, Jian Pei, Yiwen Yin, Runying Mao, 2004. "Mining Frequent Patterns without Candidate Generation: A Frequent-Pattern Tree Approach"; Data Mining and Knowledge Discovery, vol. 8, issue 1, pp. 53 – 87.
A Survey on Frequent Itemset Mining with Association Rules

- Hua-Fu Li, Suh-Yin Lee and Man-Kwan Shan, 2004. "An Efficient Algorithm for Mining Frequent Itemsets over the Entire History of Data Streams", in Proc. of the 1st Int'l Workshop on Knowledge Discovery in Data Streams, pp. 20-24.
- J. Pei, J. Han, and R. Mao, May 2000. "Closet: An efficient algorithm for mining frequent closed itemsets", In SIGMOD Int'l Workshop on Data Mining and Knowledge

Index Terms

Computer Science

Data Mining
Keywords
Frequent Itemset  Association Rule