High utility itemset mining is an uncommon term. But we are using it while we are doing online purchases etc. It is a part of business analytics. Its main application area is market basket analysis where when a customer purchases an item he can buy another item to maximize profit. So both the customer and business vendors earn profit. This one is not a new concept and is derived from frequent itemset mining. Here we proposes an algorithm for mining closed high utility itemset using top-k algorithm. So that execution time will be less and space efficiency can also be achieved. Both the concept of closed high utility itemset and top-k mining are existing. The new concept is that integrating the merits of them together. The algorithm used for closed hui mining is CHUD Similarly the algorithm used for top-k mining is TKU, TKO etc. Also recovering all HUIs from complete set of CHUIs using DAHU algorithm.

References


5. G. Pyun and U. Yun. 2014 Mining Top-K Frequent Patterns with Combination Reducing Techniques. Applied Intelligence,76-98.

6. J. Han, J. Pei and Y. Yin. 2000 Mining Frequent Patterns without Candidate Generation. In Proc. of ACM SIGMOD Int'l Conf. on Management of Data, 1-12.


25. The full wiki http://www.thefullwiki.org

Index Terms

Computer Science  Artificial Intelligence

Keywords