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.

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**Index Terms**

Computer Science  
Artificial Intelligence

**Keywords**