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IMPROVE FREQUENT PATTEREN MINING IN DATA STREAM

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ABSTRACT

Frequent pattern mining is emerging and most interesting fields in Data mining. Application of Finding frequent item set is very wide like sensor network, web click stream data, and intrusion detection. A data stream is continuous, rapid, unbounded sequence of data. Mining Frequent pattern in stream data is very challenging because data can be scan one time only. Due to this reason traditional approach cannot be use for data stream. Frequent pattern mining generates enormous amount of frequent pattern. However producing all frequent pattern is not suitable. Finding only top- k pattern is more attractive whose utility is above a threshold. In addition considering weight factor with support is more realistic approach. Our algorithm finds can efficiently find potential top k high utility pattern and encompasses effective pruning mechanism. Our experiment results report that it outperforms previous algorithm in terms of runtime, memory usage.

KEYWORDS: Data Stream, High Utility Pattern Mining, Sliding Window, Frequent Itemset, Top K Pattern Mining