

frequency of `Itemset`).

`Item` `Itemset` Interactive mining algorithms propose a different solution to the problem of handling dynamic databases. The idea is that instead of mining and updating a large number of `Itemsets` that may not all be useful, one could mine the `Itemsets` that are needed on-the-fly, when they are needed. For example, the `Itemset-Tree` [\[cite:ItemsetTree\]](#) and the improved Memory-Efficient `Itemset-Tree` [\[cite:meit\]](#) are tree-based data structures that can be created from a transaction database, and that can be updated incrementally with new transactions. These structures are optimized for quickly answering queries about `Itemsets` on-the-fly such as (1) computing the support of a given `Itemset`, (2) finding all supersets of a given `Itemset` that has a support greater than a given minimum support threshold, and (3) finding all association rules having a given `Itemset` as antecedent.

Interactive algorithms can be very efficient. For example, it was reported that the above structure can process more than 10,000 queries in just a few seconds for some datasets, on a standard personal computer [\[cite:meit\]](#).

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`Wang` `Chen` `Q. DS-Tree: a tree structure for the mining of frequent sets from data streams.`

[\[cite:International Conference on Data Mining \(ICDM'06\) 2006 Dec 31 \(pp. 939-952\). IEEE.](#)

%

`end` `Itemset`

Another important limitation of traditional `FIM` algorithms is the database format. As previously explained, `FIM` assumes that the input database only contains binary attributes (`Items`). But in reality this assumption does not always hold. Thus, several extensions of `FIM` have been proposed to handle richer database types. Some of the most important ones are the following.

`begin` `Itemset`

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`Item` `Itemset` `Weighted Itemset Mining` is an extension of frequent `Itemset Mining` where weights are associated to each `Item` to indicate their relative importance [\[cite:meit\]](#). The goal of weighted `Itemset Mining` is to find `Itemsets` that have a minimum weight. A popular variation of this problem is to mine infrequent weighted `Itemsets` [\[cite:meit\]](#).

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`Item` `Itemset` `High-Utility Itemset Mining` (`HUM`) is an extension of weighted `Itemset Mining` where not only weights are considered but also purchase quantities in transactions

[\[cite:Proc. Intl. Conf. on Data Mining \(ICDM'05\)\]](#). In traditional `FIM`, purchase quantities are assumed to be binary, i.e. either an `Itemset` appears in a transaction or not. In `HUM`, the number of units bought for each `Item` is indicated in transactions. For example, a transaction could indicate that a customer has bought four breads and two bottles of wine, which is different than a customer having bought one bread and four bottles of wine. In `HUM`, weights can be viewed as the unit profit of `Items`. Thus, each weight is associated to each unit sold of a product. The goal of `HUM` is to find all

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`Itemset`. It often uses the `FIM` algorithms for mining patterns such as `Itemsets`, sequential patterns, sequential rules, periodic patterns, and association rules. It is a multiplatform library developed in Java and released under the GPL license. It is designed to be easily integrated in other Java software programs, and can be used as a standalone software using its command-line or graphical user interfaces. The other main collection of open-source implementations is the `FIM` `Wiki`, comprising sequential rules (`SeqRules`) [\[cite:SeqRules\]](#), which provides about twenty C++ implementations of frequent mining algorithms published before 2005. Examples used for benchmarking frequent `Itemset Mining` algorithms can be found in the `FIM` and `FIM` `Wiki`.

Related to the importance of finding implementations of algorithms in the research community, another issue is that researchers in the field of pattern mining do not always compare the performance of one algorithm with the previous best algorithm because of the lack of public implementations in other systems. To illustrate this problem, consider the task of rule graph mining. Various algorithms have been proposed for this task. Among them, the `CA`, `TCR`, `FFIM`, `SPM` algorithms have been shown to outperform `GPAS`<sup>10</sup>. Furthermore, `SPM` and `MARSH` were shown to outperform `FFIM`<sup>11</sup>. And recently, `FFIM` capabilities were shown to outperform `MARSH` and `FFIM`<sup>12</sup>. However, to our knowledge no algorithm has been compared to `MARSH`, even though it was of the best proposed algorithms for frequent subgraph mining. And `SPM`, `CA`, `TCR` and `FFIM` capabilities have also never been compared with each other. Therefore, one can really make the transition inference that an algorithm like `FFIM` capabilities is better than `GPAS`, because it is better than `MARSH` and `FFIM`. Thus, in this type of cases, it becomes uncertain which algorithm is the most efficient.

## CONCLUSIONS

Frequent mining is an active field of research having numerous applications. This paper has presented the problem of frequent `Itemset Mining`, discussed the main techniques for exploring the search space of `Itemsets`, explained the frequent mining algorithms. Thus, the paper has discussed several extensions of the basic frequent `Itemset Mining` problem to overcome some of its limitations, for example, to handle dynamic databases, uncertain data and the use of

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