Abstract

Frequent Itemset Mining (FISM) finds the large and frequently occurring items from the datasets using Apriori algorithm. The FISM framework does not addresses two major properties that are Mixture-of property (more than one customer intent) and Projection-of property. To overcome the problems of irrelevant and non actionable data and also to address the properties mentioned above, Logical Itemset Mining (LISM) frame-work is introduced. LISM finds logical itemsets from the data which helps in eliminating non actionable data but at the same time keeps data which is logically connected. LISM not only finds logically con-nected items but aso items which are rarely occurring but logically connected are also discovered. LISM also addresses the Mixture of property and Projection of property which are not very well addressed in FISM.
1. R. Agrawal, T. Imielinski, and A. N. Swami, Mining association rules between sets of items in large databases, SIGMOD, pp. 207-216, 1993

**Index Terms**

Computer Science  \hspace{1cm}  Information Sciences

**Keywords**

FISM, LISM, M/R Job, FLASK, LUCENE