This paper addresses the issue of generating the frequent closed Itemset in distributed environment. Some algorithms have been proposed earlier there but they are suffering from the drawbacks like: Increasing communication load or frequent communication between the nodes for transferring information. So some algorithm need to be proposed which could solve these two drawbacks simultaneously and this paper have propose one such algorithm so that the mining of the datasets present in the distributed environment could be done effectively and with less theoretical complexity.

References

- A. Tiwari, R. K. Gupta and D. P. Agrawal: A survey on Frequent Pattern Mining:
Hierarchial Approach for Frequent Closed Itemset Generation in Distributed Environment

- Claudio Lucchesse, Salvatore Orlando and Raffaele Perego: Fast and Memory Efficient Mining of Frequent Closed Itemsets; IEEE transactions on Knowledge and Data Engineering 2006.
- Mohammed J. Zaki: Efficient Algorithms for Mining Closed Itemsets and their Lattice Structure; IEEE transactions on Knowledge and Data Engineering 2005.
- Damianos Gavalas, Dominic Greenwood, Mohammed Ghanbari, Mike O; Mahony: Heirarchical Network Management 2010.
- Cheng, W. C. H. Xiaohua Jia: Heirarchical framework for designing reliable distributed systems 1995;
- Mohammed J. Zaki: Closed Itemset Mining and Non-Redundant Association Rule Mining; 2006.
- Guinea, S. Saeedi, P.: Coordination of Distributed systems through self organizing topologies; 2012.

Index Terms
Computer Science Distributed Systems

Keywords
Frequent closed item-sets; global and local frequent closed itemsets; hierarchial system; distributed environment; subset examination techniques