

Editor Comments:

I advise the author to review recent researches, and further improve the manuscript before it can be accepted for publication.

Author's Feedback:

After we review recent papers, we find that the association rule mining method have developed into several kinds of data structures with mining solutions. The experiments shows that these strategies to improve the algorithm's efficiency of running time. But in our study, we really aim to the results of the distribution of the elderly population groups in society using the census 2000 as research background. We also visualize the results with GIS tools; our point of view is the distribution of society not the efficiency of the algorithms. Our study method may not be the Innovative but the results of analysis are useful for the society. At the end, we list several papers, to prove the association rule mining evolution.

Algorithms for Association Rule Mining – A General Survey and Comparison, Jochen Hipp Wilhelm, Ulrich Guntz " er, Gholamreza Nakhaeizadeh , SIGKDD Explorations. July 2000, Volume 2, Issue 1, pp 58-64

This paper deal with the algorithmic aspects of association rule mining. The generation of all association rules that exists in market basket-like data with respect to minimal thresholds for support and confidence. From the broad variety of efficient algorithms that have been developed they compared the most important ones. This study systematized the algorithms and analyzed their performance based on both runtime experiments and theoretic considerations. The results quite surprising: Although they identified fundamental differences concerning the employed strategies, the algorithms show quite similar runtime behavior in the experiments. At least there is no algorithm that is fundamentally beating out the other ones. In fact the experiments showed that the advantages and disadvantages they identified concerning the strategy to determine the support value of the frequent item sets nearly balance out on market basket-like data.

Association Rule Mining – Not Your Typical Data Science Algorithm. April 28, 2014. Dr. Kirk Borne <https://www.mapr.com/blog/association-rule-mining-not-your-typical-data-science-algorithm>

From this paper, we understand that the massive quantities of big data that are now available and with powerful technologies to perform analytics on those data, one can only imagine what surprising and useful associations are waiting to be discovered that can boost your bottom line.

I.J. Intelligent Systems and Applications, 2015, 12, 23-31 **An Efficient Algorithm in Mining Frequent Itemsets with Weights over Data Stream Using Tree Data Structure**, Long Nguyen Hung* ,Thuy Nguyen Thi Thu*, Giap Cu Nguyen*

This paper proposed a process of mining frequent itemsets with weights over a data stream. Based on the downward closure property and FPGrowth method an alternative algorithm called WSWFP-stream has been proposed. This algorithm is proved working more efficiently regarding to computing time and memory aspects.