Abstract

Recommender sistem has an important role invarious aspect, such making decision in choosing an item. Recommender system has been used by huge company like Netflix and amazon to provide product or film recommendation for increasing the sales of their product. Recently recommender system not only provided recommendation for single user but grup who has a multiple users. In this research, the propose method recommendation is using precedence mining method with group aggregation using virtual user approach. Virtual user is a new group aggregation approach that can provide the better result than other aggregation and also have no sparsity issues. Precedence mining method recommend an item by calculating probability between item 1 precede item 2. This method is not using rating to recommend an item and take advantage of item ordering, so this method does not have sparsity issues.

In this research using virtual user for group aggregation, need to calculate the weight of each item in the group and determine the profile using threshold that has been specified. The result of this recommender system is found that the threshold 0.35 for build profile virtual user always yield a value of f1-measure higher than other threshold. Looking up for a group size, the group size 4 give better performance than other.

Keywords *: Group Recommender System, Precedence Mining, Virtual User*