

Abstract

Recommender system is an application that can give the recommendation of rating prediction of an item, such music, video, film, book, etc, that may be chosen by the user.

This final project implemented and analyse Joint Mixture Collaborative Filtering (JMCF) method which is an hybrid collaborative filtering on recommender system contains Pure Pearson Correlation method as memory-based CF that has lack on data sparsity and Pure TAN-ELR CF method as model-based CF that has lack on scalability. This final project analyse how JMCF can reduce the lacks on this two methods. This final project also analyse the weight influence given on this hybrid method concerned the accuracy of rating prediction as the result of the recommender system after implemented on JMCF method.

Keywords: *recommender system, collaborative filtering, pearson correlation, TAN-ELR, JMCF*