

Abstract

Recommender is an application that can search and recommend items by predicting their ratings based on the similarity of user's characteristic in giving the information.

In this final project, author implements Item-Based Clustering Hybrid Method (ICHM) which is one of hybrid recommender system that combines the collaborative filtering and content based filtering. The purpose of combination between content based filtering and collaborative filtering in ICHM for overcoming each filtering shortcomings.

The analysis carried out to the accuracy of rating prediction result given by the recommender system. The number of clusters and the value of coefficient c as variable in combining similarity value are used to be the parameters of analysis.

ICHM recommender system has an advantage that can predict new items that have no rating at all. Different number of clusters gives different value of similarity based on the item's content and the combination computation based on coefficient c affect the result of rating prediction. The increasing number of clusters in ICHM gives the prediction accuracy tend to increase.

Keywords: recommender system, hybrid, ICHM, item-based clustering hybrid method