

## **Abstract**

*Recommender system is a system that can be used to predict the items based on information obtained from users, so we get recommendations based on user profiles*

*In this final project, the implementation and the analyzing Content-Boosted Collaborative Filtering (CBCF), which is a recommender system that combines the approaches between content-based filtering with collaborative filtering. The purpose of combination between content based filtering and collaborative filtering in CBCF for overcome the existing shortcomings in the two previous approaches, especially the First-Rater Problem and Sparsity. This final rating analyze prediction accuracy generated by the recommender system was implemented CBCF method. The parameters used in the analysis is the sparsity rate and the number of neighborhood.*

*Prediction accuracy generated by CBCF method is better than pure collaborative filtering. Best performance occurs when the number of neighborhood near the amount of training user and there are no missing rate. Result of the recommendations on the method of CBCF method in recommender system shows the compatibility between the item genre from result of recommendation with item genre that has been rated by active user.*

**Keywords:** *recommender system, collaborative filtering, CBCF method, sparsity, first-rater problem, genre.*