

## Abstract

*With a lot of information available on the internet, it makes user difficult to obtain information quickly and also according to their needs. Therefore need a tool that can help to obtain information quickly and relevant with user needs. To fix the problem, one of solution is to implement recommender system. Recommender system is a program that tries to predict an item that may be preferred by user.*

*This final task focuses on the implementation of stability degree in recommender system based on item based collaborative filtering. Existence of measurement stability degree is based on the evaluation of the psychological or emotional changes of user influential on the selection of most similar items. Stability degree is measured by computing the relationship or statistical property between target item and reference item. The purpose of this final task is to analyze the prediction accuracy of ratings generated by the recommender system after implemented stability degree on the phase of similarity measurement.*

*The result show that the prediction accuracy produced by recommender system after implemented stability degree progressively increased. This is indicated by the declining value of MAE.*

**Key Word:** *recommender system, stability degree, similarity, collaborative filtering, item-based.*