Abstract

Community detection is a way of determining community groups. Communities can be determined by using user interests. User-generated tag is a keyword that is pinned by users. Using keywords as representation of user interests, community detection is able to identify connected users. In this undergraduate thesis, folksonomy was used on user-generated tags to obtain suitable data for CNM community detection. CNM community detection used modularity to determine the members of a community. The highest modularity was 0.047552709 from 200 delicious tag-to-tag records. Silhouette Index using Euclidean Distance showed close to 1 result for all communities. Silhouette Index determines how fit the members of the communities are.

Keywords: User interest detection, user-generated tag, community detection CNM, silhouette index, euclidean distance