

Abstract

Informatics Engineering is one of the majors owned by Telkom University. Informatics Engineering itself has 3 research group. The selection of research group is a requirement for students to complete their studies so that the selection of the right group of skills is an important activity. The selection can be assisted by the recommendation system, one of which is Clustering method whose data or source comes from the students's marks. This final project implements the expert group recommendation system using Cluster ensemble algorithm. This method combines the results of several Clustering processes by implementing link-based methods. The method is a modification of one of the consensus functions called pairwise similarity. The expert group recommendations are based on student marks data. The end result of the function is Clusters as reference of the recommendation. As for the calculation of Cluster quality, used Compactness method, Davies-Bouldin and Dunn. The calculation yields the best value of 0.4797 for Compactness, and 0.5229 for Davies-Bouldin, all when the numbers get closer to 0, so the Cluster quality is better. There is also a Dunn that produces a value of 2.1113 with the meanings when further away from the number 0, then the Cluster quality is better.

Keywords: Clustering, Cluster ensemble, pairwise similarity, Research Group