

## **ABSTRACT**

### ***Implementation of Fuzzy C-Means algorithm on Decision Support System for consultation Recommend type Based Attitude score's Students in Senior High School***

**Atep Yadi 1211705031**

***Departement of Informatics***

*The 2013 curriculum is one of the curriculum in formal education in Indonesia. Most of senior high school in Indonesia has been implementing the 2013 curriculum. In this curriculum there is an assessment of the students' attitude so expect after graduation students have useful knowledge and good attitudes. To determine the score of the attitude need observed and appropriate calculation so that the results of such assessments can determine the proper counseling for students. Utilization of information technology in particular Decision Support System (DSS) may facilitate the work of man, so that the use of DSS can assist in determining the attitudes score of high school students. Data Mining with Clustering techniques can group the results of student's attitudes score, so that proper counseling can be determined based on the attitudes score. Assessment of attitude techniques requires logic flexible to appropriate the circumstance, so the algorithm Fuzzy C-Means (FCM) can be applied, cause FCM algorithm always converges or be able to group data that require flexible logic calculations. and can group different data into a cluster based on the size of closeness / similarity. And the results of the clustering can recommend the right kind of counseling.*

*Keyword : 2013 curriculum, Senior High School, attitudes score, Fuzzy C-Means, DSS*

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