

Abstract

Admissions process through JPPA-N has its own problems in determining the admission of new admissions in the college of IT Telkom. In its activities, the selection process through JPPA-N is still done manually so it allows for the subjective selection and take a long processing time in the process. Therefore, an admission system system which be able to obtain more objective, accurate and less in processing time results for the acceptance of students college is required. The use of data mining helps in processing the data into useful information in the decision-making process on the new admissions process of students college, especially at JPPA-N. The data mining techniques that can be used is the classification. Classification can select admissions based on the affect attributes with using an specific algorithms. The algorithm that used in that process is CRUISE (Classification Rule with Unbiased Interaction Selection and Estimation) 1D algorithm. From the experimental results indicate that the CRUISE 1D algorithm can produce an overall accuracy of 79,69% in predicting the new admission selection of student college and has fast processing time that less than 25 seconds. Besides, note also that the change in the interval λ in the Box-Cox transformation affect the accuracy and the time is obtained, although not significantly

Keyword : JPPA-N, classification, CRUISE 1D, data mining.