

ABSTRACT

Non-written new student acceptance is one of the ways to get into University with a high total of registrants. This bachelorial final project discusses how to select the new student from the non-written path by using rules extracted from classification. It is hoped that the classification rules could be used to help to evaluate the acceptance of new students from the non-written path.

Classification of non-written new student acceptance could be done with the ant-miner algorithm. Ant-miner (ant-colony based data miner) is one of the algorithms that is used to extract classification rules from data and has been able to give satisfying results in various complex datasets that have been tested with it. This final project also aims to produce an analysis of the non-written new student acceptance using the ant-miner algorithm.

This final project result is that ant-miner produces good training and testing accuracy, no overfitting, and rules with a great level of accuracy, recall, and precision and could be used well to evaluate the non-written new student acceptance.

Keywords: Classification, New Student Admission, Ant-colony optimization, Ant-miner.