

Abstract

Research Title Developing Information System to Forecast the Student Admission via the Internet.

Author Miss Sumitra Nuanmeesri

Academic Year 2012

.....

Admission for new students to study at bachelor degree level in any institution is very important. This will directly affect to the education budget and planning for management of the curriculum. This research issue presents developing information system to forecast the student admission via the internet by rule of decision tree classification techniques to predict accurately and precisely student admission.

In the experiment, operation of a special issue made use of modeling and testing via model prediction for new students. Rules using decision tree techniques: k-fold cross-validation 3 models, percentage split 3 models, and a model from training set and test set were employed. The model was built and tested with 7 kinds of modeling. The experimental results for forecasting new students via rules using decision tree techniques, the model from training sets and test set which showed higher efficiency than the other model with correctly classified instant equal to 94%, precision was 94.30%, recall was 94% and F-measure was 93.70%. In conclusion, the model calculated data from each test accurately and forecasted efficiently the student admission.

Researchers have taken the decision tree classification rules to develop the information system to forecast the student admission via the internet. The efficient system was tested to use means and standard deviations by four specialists and forty personals. The results of the efficient system testing were averaged by the specialist 4.17 and the value of the personnel 4.34. The system performance is good satisfactory and can be applied to forecast the student admission.

Keywords : Forecasting, Classification, Decision Tree, Student Admission