16. Paper 30071065: Predicting Students' Academic Performance Using Artificial Neural Networks: A Case Study (pp. 97-100)

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Abstract—Predicting students' academic performance is critical for universities because strategic programs can be planned in improving or maintaining students' performance. The goal of this study is to predict the factors affecting the university students' performance using Artificial Neural Networks (ANN) model. Various factors that may likely influence the performance of a student were identified. Generalized Regression Neural Network (GRNN) is used to predict the university students' performance. It is noticed a significant improvement in the prediction made by GRNN due to its generalization property. The most important predictor variable influencing performance is consistently having the largest regression. Results showed that secondary school performance which is measured by scores in secondary school certificate examination, measured in a percentage form having the largest regression value.