Abstract

The predicate of graduation obtained by students can varies depending on the cumulative grade point average they get. In this study, the artificial neural network (ANN) method was used to predict the graduation predicate of students based on the grades of basic courses that have been studied to see the effect of these scores on the graduation predicate of students. The value of the basic courses totals 14 courses as features, namely, the value of the calculus I course, the value of the calculus II course, the value of the discrete mathematics course, the value of the mathematical logic course, the value of the basic algorithm and programming course, the value of the matrix and vector space, the value of the Indonesian language course, the value of the civics education course, the value of the English language course I, the value of the English class II, the value of the physics course, the value of the introductory course in informatics engineering, and the value of the ICT literacy course. The results show that the artificial neural network (ANN) method is able to predict the final achievement of students with the best accuracy of 73%. This shows that level 1 basic courses have a good effect and can be used to predict student graduation predicate.

Keywords: ***Artificial Neural Network, Value, Predicate, Prediction.***