Abstract

The process was made during the increase in majors class, from class X to class XI based on considerations of existing curricula at SMU Negeri 1 Cileunyi. Students will be majoring into science classes, social classes, or language classes. Majors who carried out the process that is based on students' skills in this subject at the time of class X, the psychological test results, and interests of students of science majors, social studies, or language.

NEFPROX method is a fuzzy system trained with the heuristic learning techniques derived from artificial neural networks. From the training data, learning heuristic to be extracting a NEFPROX rules and adopt the fuzzy parameters of fuzzy sets. Then the system will work as Mamdani fuzzy method. This method takes time in the counting process is fast and gives high accuracy

By implementing the method NEFPROX high school students in majors, can produce the smallest MAPE of 0.11421941 as the number of epochs and learning rate 0.00001 500.

Keywords: *NEFPROX, neuro fuzzy, fuzzy mamdani*