

Abstract

Neuro Fuzzy Function Approximation(NEFPROX) adalah a method that can be used to optimize Fuzzy Logic Architecture based on the data that given by using Artificial Neural Network so it could give better accuration

This final project is built to analyze effects that appear by using some form of membership function on Fuzzy Logic that train using NEFPROX. These analysis include the accuration and the speed of training and testing that done, so we could find the optimal form to be used by this temperature forecasting system.

The data that used by this system is the temperature data including its input parameters that influenced the temperature during 365 days that taken from Jakarta, Bandung, and Pontianak. Based on the data, the Fuzzy Logic System that train before by using NEFPROX could forecast the temperature on the next day based on the inputs parameter on yesterday.

In this case, the best form is phi because it give an average accuration for learning data above 80% and for testing data above 60%.

Keyword : Fuzzy Logic, Artificial Neural Network, NEFPROX, temperature.