

Abstract

Backpropagation is a technique of artificial neural network which is supervised learning algorithm category, generally using Multilayer Feed architecture to change the loads of the neurons. Algorithm using error output to change the load in reversed ways. Error on the output to hidden part when study processed and then propagation reversed. This process continues until the error in output can be tolerated.

This final project implementing backpropagation in artificial neural networks to identify basic arabic characters. The characters represented into digital metric pictures. The implementation started with training step to have the finest parameter and network architecture. The parameter and network architecture implemented in testing step.

Test result by using trained data pattern showing the accurate system in identifying basic arabic character pattern that already used in training step.

Keywords: Backpropagation Neural Network, Pattern Data.