

ABSTRACT

The level of crime is happening in the community increased along with the increasing needs that must be met, all the way done to be able to satisfy personal desires. Including the impersonation of others, one of which was forged the signatures. Signature is the most often used to identify a person in testing the validity of a person identity. It became an issue given the importance of the validity of an identification, if a transaction or document authenticity is questionable due to the signature forgery.

In this final project designed a system application that is able to analyze the characteristics of a person signature, so the signature can distinguish between genuine and fake signatures. In the process of recognition using backpropagation neural network.

From the result of the research showed that, the best weight for application system is obtained by using two hidden layer with the number of hidden neuron 1 is 24 and the number of hidden neuron 2 is 24, learning rate is 0.5 with the level of accuracy is 99.33% for training set, the level of error rate is 0.67% for training set, and the level of accuracy is 44.67% for test data, the level of error is 55.33% for test data.

Keywords: Signature, Artificial Neural Networks, Backpropagation