Abstract

Communication is an activity by humans to interact with the others. There are many types of communication media, including sounds, images or handwritings. These media can be used to positive or negative things. One of them is using handwriting media. Identifying handwriter manually takes more times and make people tired if the database handwriting are too much. Therefore, a computerized system expected can assist in handwriter identification.

In this final task will build handwriter identification system using discrete wavelet transform with haar wavelet type and Levenberg Marquardt Backpropagation algorithm. Handwriter identification system adopted from signature identification system that already exists. Haar wavelet is used as preprocessing of system and Levenberg Marquardt Backpropagation algorithm is used as data classification.

The results of testing system, handwriter identification can be implemented using haar wavelet method and Levenberg Marquardt Backpropagation algorithm with the accuracy 86.67%.

***Keywords** : handwriter identification, haar wavelet, descrete wavelet transform, artificial neural network, levenberg marquardt backpropagation*