

ABSTRACT

Hand Writing Recognition (HWR) is a computerized system used to identify a tied of character which sourced from handwritings. HWR system can do the transformation process of a handwritten document to become a text file without a retyping process before, in order to make every character (letters, words, sentences) can be identified precisely and can be read by another software.

. This final task observes a form of HWR application that would be used to identify letters from handwritings which have a picture-type file(jpg, .bmp) through a handwriting scanning process. In the system planning, the characteristic extraction process use a vector approach and the character identifying process use an imitation nerve network called Self-Organizing Maps. In this process, the characteristic line-composer vector will be definite by connecting neuron points which held on a character region.

. The expectation result from this research is to create HWR system which able to identify every character in a high accurate level.

Keywords : self-organizing maps, artificial neural network, hand writing recognition .