

Abstract

*This Last Project appoint a topic about character handwriting recognition using fuzzy logic that regard a character handwriting as a graph with direction, which the node consist of end points and intersection points while the edge consist of line, curve, and loop as basic step for features extraction sub-system, a neural network backpropagation for classification sub-system, and classic algorithm for preprocessing sub-system. This system accept *.bmp input image then the system will execute with three stage that are preprocessing, fuzzy feature extraction, and neural network backpropagation.*

*Testing purpose are to find out whether the system can recognize a character that obtained in input image, and to count average time proceses of the system. Testing using 5 sample character handwriting(every sample include 52 kind of charecter) from 5 volunteer. The dimension of input image is 106 x 114 with *.bmp format. The result has recognition rate 74,6% with average time process is 1,97 second for every character.*

Keyword : Logika fuzzy, Neural network backpropagation , Citra Digital, Preprocessing, Fuzzy features extraction, Recognition rate.