

ABSTRACT

Handwriting Character Recognition is a complicated problem in Information Technology. One of them is *Handwriting Character Recognition* from the form with characters segmented with boxed or known with *Boxed Discrete Character*. With *Handwriting Character Recognition*, human is no necessarily need to input data of the form which is so many characters and can make human to be tired and sometimes they make mistake in inputing data because of that problem. But now, with computer, that problem can be solved by scanning the form and then will be automatically processed.

To recognize handwriting character, feature of character on the form has to be extracted first, and then will be analyzed, so that computer can decide the character. *Point Feature Extraction* and *Normalized Contour Analysis* are two feature extraction methods which can extract unique feature of character.

Feature from that two methods will be used as input in *Backpropagation* which is by using FeedForward process, the character can be recognized based on the character that has been trained before.

From the evaluation, the characters can be recognized with accuracy 99,03 % for data training and 62,96 % for data validation. And the characters which has not been trained can be recognized to 90,27 % in accuracy, with average accuracy 63,41 %.

Keywords : *Boxed Discrete Character, Handwriting Character Recognition, Point Feature Extraction, Normalized Contour Analysis, Backpropagation*