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ABSTRACT

Character recognition is a part of computer science to help data processing. One of the character recognition techniques is the neural network technique. This method is simulating the principal of human brain consist of neurons to process input using the weight given to produce output.

The main goal of this experiment is to create software that can recognize printed characters using neural network methods. The architecture used is the multilayer neural network using algorithm backpropagation. To help the recognition, the image is segmented by mapping method. The result of testing shows that for each type of character recognized was 81.74% recognized for the succeed segmentation and 67.53% for the failed one. The recognition of other type of character from the recognized one result is 55.47% for the succeed segmentation and 46.65% for the failed one.

Keyword: Printed Characters Recognition, Backpropagation, Digital Images.