Abstract

This paper talks about the use of computer as a tool of handwritten character recognition. The handwritten character that will be recognized is a result of scanning process of a form which stored in computer as an image data then further processed to extract important character that contained in it. With this recognition process, it is expected to make the process of inputting a lot of raw data to the computer easier than human who has limited energy and time. Until today, there hasn't been found a method which can recognize handwritten character that has the same capability of human has. Therefore, research in this field is still wide open to anybody who interested in solving it.

ICA is a feature extraction method that used to find independent component that contains in a data, which is an image of handwritten character, so it can be used as a feature representation of an image to be further recognized in the process of pattern classification using MLFFNNBP. The combination of these methods produces a recognition system which has accuracy above 80% for handwritten character recognition.

Keywords: *handwritten character recognition, ICA, MLFFNNBP*