

ABSTRACT

Recognition of handwriting character is the part of pattern recognition that has been researched by many people. Handwriting recognition is important for the processing of information process that might possible to transfer the fill of handwriting document from paper into computer.

In the final project developed a system that can identify the character of handwriting digital image automatically that is by recognizing character of found on the handwriting image. Preprocessing phase that is moderation of handwriting image is very needed to get the pattern of handwriting character. It can use the segmentation character and edge detection to eliminate the image edges which not contain the lines of compiler of character pattern image. Technique used for the recognition of handwriting character is artificial neural network with the method of Learning Vector Quantization (LVQ).

In phase of testing, testing set that using in the system are documents image of handwriting that are never used in phase of training. Result of analysis indicate that with character segmentation using labeling algorithm can use to segmentation of space discrete karakter. And using artificial neural network with method of can be used to recognize characters at documents image of handwriting with good enough in accuration level is 58.06 %.

Keywords: learning vector quantization (LVQ), artificial neural network, handwriting character recognition