REAL TIME HANDWRITING RECOGNITION SYSTEM USING DOMINANT POINT METHOD AND LEARNING VECTOR QUANTIZATION ARTIFICIAL NEURAL NETWORKS

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Abstract
Along with the development of computer technology as well as a variety of devices that support the performance of the computer, real time handwriting recognition have become important area to be studied and developed. One of the reason is because real time handwriting recognition will make the use of computers become increasingly dynamic. One of methods wich is used in real time handwriting recognition is dominant point method. Basically, the system will read the direction of movement of pen strokes that are based on curve local extrema or dominant points. The method wich is used for classification is also an important factor in order to obtain a good degree of accuracy. In this study developed real time handwriting recognition system wich feature extraction process used dominant point method to get direction chain code of each character. For the classification and character recognition process used learning vector quantization neural networks. From the experiments performed, the recognition accuracy is 78%.

Keyword : Handwriting Recognition, Real Time, Dominant Point Method, Artificial Neural Networks, Learning Vector Quantization