ABSTRACT

Braille letters definitely help the blind in reading and doing daily activities. The problem is that the Braille is difficult to be understood for people who are not blind. In order to that, a tool that can help people to minimize the time for translating the Braille letters into Latin text automatically is very much needed.

A tool like that can be created on an application that can process a document with Braille letters and translate it into a Latin text document. So that, a system that can convert Braille to text automatically is designed. The input image is taken using scanner, preprocessed, segmented, the feature is extracted using histogram area, classified using SVM, and then the capital and numerical algorithm are set.

The system was tested using 24 images with 854 characters. The level of accuracy obtained in this final task is 93,21% for OAO method and 92,27% for OAA method.

Key words : *Braille*, *Hough Transform*, *Automatic Converter*, *Histogram Area, SVM, ASCII.*