Abstract

Braille is writing system which enables blind and partially sighted people to read and write through touch. It was invented by Louis Braille (1809-1852), a French teacher of the blind. It consists of patterns of raised dots arranged in cells of up to six dots in a 3 x 2 configuration. Each cell represents a letter, numeral or punctuation mark.

In this final assignment is develoved application to recognize Braille character text with *Template Matching* algorithm using *Image Correlation* method. *Image Correlation* conduct character recognition by comparing image patterns with image template. This method conduct character recognition by moving template to every position in a image and evaluate equality level from each position which have been passed by. Character recognition accuration using this method depending on image condition and template size.

System development built using Microsoft Visual Studio 2005. From the test we get the pattern if smaller SAD value resulting sum of Braille character found more closed with sum of real character.

Keywords:
Braille, Template Matching, Image Correlation.