ABSTRACT

` Now days image processing technology is growing so fast. Many applications of image processing that very useful for detection, conversion, security obligation and others, so many aspect use image processing as a basic technology to help them solve their problem. In music aspect, musical script is a most important thing. Musical script is an equipment to help a singer or musician when they are singing or playing music instrument. Musical script consist of harmonic composition of musical notes that has been set by the composer. Because of that, to get the harmonic tone, the precise in reading musical notes is very needed.

In this final project, was improved an application to convert a musical script into tones in an image data that come from musical script scanning as an output from writer script notation software, into tones. This system is made to optimize reading musical notes that always been done manually. This final project use template matching as a feature classification which is template matching is use to explain how we can recognize a character of musical notation.

Based on the result of the research has been done on 56 images which is designed system has been able to convert a musical script images to tones with an accuracy of differences notation 82,14%, and 3.72 seconds of computation time.

Keyword : musical notation, musical script, digital image, *template matching, scanning*