

## **ABSTRACT**

Translation of data from the application by technology scanning image into digital format is very useful functions to convert data quickly. Although in this modern era has been a lot of technology that can be used to make a post, but many people still concern in the handwriting. It is necessary to have a technology that can read and convert the human's handwriting to digital writing.

In this research conducted how to read handwriting through its constituent structures using Structural Representation. The process of reading the data input is done by the working methods of OCR (Optical Character Recognition). Input image which will be input in the form of images must be in *.jpg* or *.bmp*. Handwriting input image is one that consists of pieces of sentences that contain a capital letter which will then be separated based on the structure of the constituent. Structural separation is done by template matching method and then identified as output reading through the method of Structural Representation.

The result by the system is ability to recognize handwriting with average acuration 70.06%

Keywords: handwriting, capital letters, template matching, OCR (Optical Character Recogniton), Structural Representation.