

ABSTRACT

Graphology is a psychology which used to knowing character and individually someone from their handwriting. When we write, there is a collaboration between motor movement and physics condition, these called psychomotor. In terms of determine the space, a graphologist is likely use an impression in determining the space, or even just common people who are new to graphology, using a ruler but the results are not quite precise with actual conditions. Machines do not have the sense in judgment based on the impression to conclude about something, but have a high level of calculation.

In this final project a space handwriting recognition system is designed in the form of an application program using the image processing that serves to identify the space into 4 classes, which is narrow, normal, wide and irregular. Handwriting identified in this final project comes from the handwriting that its image was captured using a scanner. In the process carried out 3 stages. In the preprocessing stage the process that carried out is resize, gray scale, inverse BW and BW, In segmentation stage the process that is carried out is region separation at each character which will be detected. And in the last step is character recognizing and classifying.

The testing process is done by processing 32 handwriting image. The best accuracy result is 87.5%.

Keywords : Graphology, handwriting, image processing, space