

## ABSTRACT

*In the previous research has been discussed about Japanese character pattern identification use Learning Vector Quantization method with the level accuracy is 43.913 %. With that method pattern can be recognized but the level accuracy can be improved*

*Based on the previous research ,on this final assignment is designed a Japanese character pattern identification using self-organizing map artificial neural network method which method that use to see a comparison between the previous method. On this final assignment the input is Japanese pattern written by respondents who are experts in writing Japanese pattern then the pattern captured by camera and process in matlab. For the testing using data from respondents who are understand or just learning writing Japanese pattern.*

*Result from the testing and analysis are obtained that feature extraction have big impact in determine the level of accuracy compared with parameters on artificial neural network. In this testing segmentation feature extraction have the best accuracy rate of 91.3034 % compared with DCT feature extraction have the best accuracy rate of 67.3913 %. To test the system added noise to see the level of accuracy*

*Keywords: Japan Pattern, Thresholding, Artifical Neural Network*