ABSTRACT

As the era of many things has been renewed through the level of efficiency and effectiveness, one of them is a means of transportation. In addition the means of transportation is very useful for human life with the tool, of course, humans with more easily and quickly achieve the purpose of using the means of transportation. One of the most commonly used means of transportation is the car, with loads of cargo that can be transported with the same level of comfort and reliability compared to other means of transportation. And with the development of technology and innovation today, teciptalah autonomous car.

Autonomous Car can also make it easier for the rider, and maintain the address while driving, run the traffic sign order and recognize the trained road pattern first. This system is built using Neural Network control method, and also Image Processing as signal processing with input in the form of picture.

With the accuracy of both methods, 85% percentage for haar-like feature and 98% for the backpropagation neural network method was obtained from the test result of the tested training with some randomly-picked testing models.

Keywords: transportation, Autonomous, Car, Image, Processing, Neural Network