

ABSTRACT

To get the otomatitation in system information about identifying kind and amount of vehicles can do with recording some of sample from them as subsystems from monitoring identification system kind of car with diskrit image processing method. From this monitoring will get the information about kind of car that consumen likely in one city.

In this final report use the diskrit image processing to process the image information in this case is car with it's relationship to identified kind of car that we want especially "city car". Process to identifiying image of car include the data accuitition, the first processing, characteristic extraction and identifying of sort. Algorithm filter Gabor Wavelet used to extraction characteristic and *Radial Basis Function* (RBF) to identifying of sort from car image.

The result to display how the system can intoduce and compare kind of car and count the quantity from the same car until we get the maximum number from sample of car in spesific monitoring time.

Performances from system has accuration about 65,71 % or the orther hand the error system about 34,29 %. With this, can conclude that system can do the identification kind of car well.

Key word : **Image Processing, *Radial Basis Function, City Car, Gabor Wavelet Filter***