

CHAPTER FIVE

CONCLUSION AND RECOMMENDATION

5.1 Conclusion

The suggested system is very useful in traffic monitoring and it can be designed to identify the stolen and offensive vehicles if such information is added in the database. This system is widely used, for example in Saudi Arabia an ALPR system called Saher used to recognize the plate and determine the velocity of the vehicle, also Saher system can identify if the car is stolen or not and other many functions. The plate recognition also can be used to registration of daily tickets and control the international borders traffic. The plate recognition system is very useful system because many applications and uses can be done when the plate is recognized.

Using the open source software to implement this system has proved its efficiency and its advantages over using MATLAB in such systems, this system is implemented in open source software (C++) and we used the library (OpenALPR), this library has many functions that can manipulate and process the images, extract the result and store the results in a hard drive. Then the result is sent to the Database and as said earlier many functions and information can be used .

This proposed system has proved its efficiency and acceptable rate of recognizing the plate characters, this system is tested by many plates and the results are getting more accurate in each test because the performance of the trained detector and OCR can be better by training and testing .

5.2 Recommendation

ALPR system has proved its efficiency and its advantages over using MATLAB in such applications, and many uses can be performed by using this system. For future work the suggestions are:

- Training the detector to identify plates before implementing the system in the real world traffic monitoring.
- Training the OCR to recognize many fonts forms to make it very flexible to use it almost every where.