

## Conclusion and future work

ALPR plays an important role in numerous applications and a number of techniques have been proposed. this system has become a main key of many traffic related applications, e. g. the road traffic monitoring, the traffic analysis, the parking lots access control etc. Accurately detecting the number plate from a vehicle image, extracting the numbers and characters from number plate, and quickly recognizing the number are considered to be the most important stage of ANPR system. They significantly affect the recognition accuracy and processing speed of the entire system.

In this work, we present a convenient and efficient methods for license plate recognition based hu moment and LBP for features extraction, and based SVM and template matching (KNN)for recognition. The proposed method is mainly designed for Algerian car license plate. The system is implemented in MATLAB and its performance is tested on a test database of 50 samples of extracted license plate images with different background, different distance and view point. We presents, results of a preliminary study carried out to extract the location and recognition of license plates from the still images of rear view of cars. The work carried out as part of this brief focuses on the registration plate recognition.

This system is based on two different tasks:

- The first: we have developed a number of image databases to be able to experience our system.
- The second: we have designed and set up a license plate recognition system, we has obtained the best performance is 80%.

Some perspectives that may help extend the work in this work are:

- Use another methods (example: Zernike invariant moment or other) for feature extraction.
- Use another methods (example: Hidden Markov Model (HMM), Neural Network, ...) for character recognition and improve recognition rat(RR) and processing speed to obtain a more robust system.
- Using the technique of video sequences, as an LPR acquisition method, still pictures were preferred in order to simplify acquisition and

processing operations, The image may be taken via digital camera for the rear or the front side of the vehicle Algerian.