A Review of Recognition Technique Used Automatic License Plate Recognition System

Volume 121 - Number 17

Year of Publication: 2015

Authors:
Sheetal Rani
Pawan Kumar Dahiya

10.5120/21630-4938

Abstract

Automatic License Plate Recognition (ALPR) is the extraction of vehicle license plate information from an image or a sequence of images or video as input. A learning based approach plays a very important role in recognition process. ALPR system consists of four modules named as Acquisition of an image, localization of license plate, segmentation of an image and character recognition of license plate. Recognition module helps in recognition of character that is present on license plate. Template Matching, Neural network (NN), Support Vector Machine (SVM) etc. can be used as recognition process. This paper presents different methods of character recognition in an Automatic License Plate Recognition system (ALPR). Recognition techniques are presented along with their advantages and disadvantages. The methods are categorized according to their response, accuracy and faster response. The future foresees for researchers are also given at the end of the paper.

References

- Sheetal Rani, Pawan Kumar Dahiya, "A comprehensive study of different techniques of automatic license plate recognition system," TEQIP sponsored national
A Review of Recognition Technique Used Automatic License Plate Recognition System

conference on Advances in Electronics & Communication Technologies, Jan., 2015, pp. 159-163.
A Review of Recognition Technique Used Automatic License Plate Recognition System


Index Terms

Computer Science
Pattern Recognition
Keywords
Automatic License Plate Recognition (ALPR)  Artificial Neural network (ANN)
Neural Network (NN)
Support Vector Machine (SVM) Optical Character Recognition (OCR).