Abstract

License Plate Recognition (LPR) is a well known image processing technology. LPR system consists of four steps: capture the image from digital camera, pre-processing, character segmentation and character recognition. License plates are available in various styles and colors in various countries. Every country has their own license plate format. So each country develops the LPR system appropriate for the vehicle license plate format. Difficulties that the LPR systems face are the environmental and non-uniform outdoor illumination conditions. Therefore, most of the systems work under restricted environmental conditions like fixed illumination, limited vehicle speed, designated routes, and stationary backgrounds. Each LPR system use different combination of algorithms. From the papers being surveyed, it is realized that a good success rate of 93.7% is obtained by the combination of fuzzy logic for license plate detection and Self Organizing (SO) neural network for character recognition. Comparisons of different LPR systems are discussed in this paper.

References

- M. F. Zakaria, S. A. Suandi, "Malaysian car number plate Detection System based on..."
on template matching and colour information," IJCSE, vol. 02 no. 04, pp. 1159-1164, Jan 2010.


**Index Terms**

Computer Science  
Pattern Recognition

**Keywords**

Image processing  
License Plate Recognition  
License Plate Detection  
License Plate Segmentation  
Optical Character Recognition