Abstract

For an intelligent transport system license plate location and vehicle license plate recognition is an important phase. The objective of this work is to design & implement a method for Number Plate Recognition (NPR) of Kannada number plates. This paper presents a method of number plate recognition, segmentation & recognition of the characters present in the Kannada number plate. The images of various vehicles have been taken manually and converted into gray-scale images. The wiener2 filter is used to remove the noise located in the number plates. The segmentation of gray-scale image generated by finding edges using sobel filter for smoothing image is used to reduce the number of connected component & then bwlabel is used to calculate the connected component & at the last single character is detected. The result shows that the proposed method have achieved accuracy of 85%.

References

- Siddartha Choubey and Sinha G. R (2011) Pixel Distribution Density based character
recognition For Vehicle License Plate, (ICNCS 2011), 5, 26-30.
- Michael Seul, Practical Algorithms for Image Analysis Description, Examples and Code.
- Kroese B. (1996) An Introduction to Neural Networks, Amsterdam University of Amsterdam.

**Index Terms**

Computer Science
Information Sciences

**Keywords**

Kannada Number Plate Recognition Segmentation Noise and Filter