Abstract

This paper deals with the study of different edge detection techniques for plate localization component of a Car License Plate Recognition system. The process of edge detection also involves filtering and smoothing of image. An experimental study has been carried out in this paper for comparison of the available edge detection techniques for this emerging area of
application. Single frame gray-level images are used as the only source of information. In the experiment images of Indian license plates were used, which are taken with the Kodak camera 10Mpixels. The results show that the approach is robust to illumination, plate slope, scale, and is insensitive to plate's country peculiarities. These results could be also usable for other applications in the input-output transport systems, where automatic recognition of registration plates, shields, signs, etc., is often necessary.

Reference

- D Kaushik, H.U. Chae and K. H. Jo, “Vehicle License Plate Detection Method Based on
Comparison of Edge Detection Techniques for Segmenting Car License Plates


Index Terms

Computer Science  Information
Technology

Key words

Edges  Image
Car license plates  Image
processing  Segmentation and Recognition