

## **6. LOCALIZATION OF LICENSE PLATE NUMBER RECOGNITION USING IMAGE PROCESSING TECHNIQUES**

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Vehicle number plate recognition is the most interesting and challenging research topic from past few years. It is shown that the number plates are different shape and size and also have different color in different countries. In India the most vehicle number plate used yellow or white as background and black used as foreground color. In this paper we proposed a system to localization of number plate mainly for the vehicle in India and segmented the number as to identify each number separately. This paper presents an approach based on simple and efficient morphological operation and edge detection method. We also present a simple approach to segment all the letter and number plate. After reducing noise from the input image, we try to enhance the contrast of the binarized image. We mainly concentrate on two steps: one is to locate the plate number and second is to segment all the number and letter to identify each number separately. The project develops by using MATLAB 7.9.0.

Keywords-Number plate localization, edge detection, thresholding, character segmentation.

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