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Automatic Number Plate Recognition System using Template Matching and Euclidian Distance

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Abstract — **In the present world, the increase in the use of vehicles and automobiles are very useful for our day to day life. For the identification and classification of different vehicles according to the owner, vehicle type and region where the vehicle is used, we use the number plate. By the increase in the number of vehicles, the law enforcement and classification of vehicles are a great challenge to the authority. So the use of automatic number plate recognition system has a very important role in the current scenario. There are several types of research and methods are used to implement the recognition of numbers from the images such as optical character recognition (OCR) etc. But by using those methods there are several limitations for the identification of numbers and also classification of numbers with the characters which are in the same shape. Here we use a new method for the number plate recognition which done by the template matching by calculating the Euclidian distance between the current input and the template. We are also done some morphological operations on the input number plate image. By using this method, we got an 85% accuracy in the local images that we took in number plates having different dimensions and different background colours.**

Keywords — **Automatic number plate recognition, Optical character recognition, Euclidian distance and Template matching.**