Abstract

An automatic car license plate detection system is essential for today’s busy traffic as it allows for quick traffic monitoring, toll processing and law enforcements related to traffic. Over the years many researchers have successfully developed much automatic car license plate detection system. Each system has its own set of advantages and limitations. In India, the need for automatic car license plate detection system is highly essential. Currently States like Delhi have adopted an Odd-even based traffic policy to bring down the levels of traffic pollution. In such scenarios it becomes highly difficult for the traffic inspectors to manually monitor odd-even series car plates. Thus, this work is a preliminary effort in developing an automatic car license plate detection system for odd-even based systems and it also supports the classification of car license based on the color of the license plate like private vehicle, commercial vehicle, government vehicle and so on. This work makes use of integration of SURF, Multiclass SVM and OCR for car license plate detection system. The proposed system is very fast and accurate results are obtained in less time. The system on execution successfully classifies the odd and even vehicles with an accuracy of 94%.
References


Index Terms

Computer Science Pattern Recognition
Keywords

Car License plate detection, Odd even system, SVM, SURF, OCR