

Vehicle Number Plate Detection

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Abstract: Real Time Number Plate Recognition System is an image processing technology which uses number (license) plate to identify the vehicle. The objective is to design an efficient automatic authorized vehicle identification system by using the vehicle number plate. Number plate recognition (NPR) can be used in various fields such as vehicle tracking, traffic monitoring, automatic payment of tolls on highways or bridges, surveillance systems, tolls collection points, and parking management systems. The developed system first detects the vehicle and then captures the vehicle image. Vehicle number plate region is localized using Neural Network(rcnn) then image segmentation is done on the image. Character recognition technique is used for the character extraction from the plate. The resulting data is then stored in a database along with the time-stamp. The system is implemented and simulated in python, and its performance is tested on real image.

Keywords: Real Time Number Plate Recognition System.

REFERENCES

- [1]. Debkumar Chowdhury Souranee I Mandal Dona Das Soumya Banerjee Sourath Shome Devlina Choudhary Computer Science Engineering University of Engineering Management, Kolkata Kolkata, India An Adaptive Technique fo Computer Vision Based Vehicles License Plate Detection System 978-1-72810070-8/19\$31.00 ©2019 IEEE
- [2]. Khin Pa Pa Aung, Khin Htar Nwe, Atsuo Yoshitaka Automatic License Plate Detection System for Myanmar Vehicle License Plates 2019 IEEE
- [3]. Naaman Omar Yaseen Salim Ganim Saeed Al-AliAbdulkadir Sengu rDepartment of Information Technology Duhok Polytechnic University Duhok, Iraq Development of New Anpr Data setfor Automatic Number Plate Detection and Recognition in North of Iraq 978-1-7281-3992-0/19\$31.00 ©2019 IEEE
- [4]. Naaman Omar Yaseen Salim Ganim Saeed Al-AliAbdulkadir Sengu rDepartment of Information Technology Duhok Polytechnic University Duhok, Iraq Development of New Anpr Data setfor Automatic Number Plate Detection and Recognition in North of Iraq 978-1-7281-3992-0/19\$31.00 ©2019 IEEE
- [5]. Dr Savita Gael and Savita Dabas, Vehicle Registration Plate Recognition System Using Template Matching, IEEE 97B-1 -4799-1 607-B/13, 2013.
- [6]. Prashant Chaudhary, Dr. V. S. Dhaka, Manoj Kumar“Automatic License Plate. Recognization System Using LabVIEW: Review “,International Journal of Advanced Research in Computer Science and Software Engineering, Volume 6, Issue 2, February 2016 ISSN: 2277 128X.