Survey on Automatic Number Plate Recognition System

Abstract

Number plate recognition is a system which is designed to capture the registered number plate of vehicles. It avails the user to identify and monitor running vehicles and extract their number plates and obtain their information from the RTO database. This survey paper focuses on the research done in automatic number plate recognition system from past several years and hence shows the advantages and disadvantages of the existing system. It shows the architecture and the methodology currently being used for the extraction of characters from number plate and displaying it. It has illustrated various methods to extract image frames from a streaming CCTV footage, recognize the vehicle number and convert it into its corresponding text format. A Machine vision system for the car identification can also help a human operator and cultivate an objective to improve automation of the traffic controlling system using machine-learning tools.

References
1. Yuan Jing, Bahar Youssefi, Mitra Mirhassani, Roberto Muscedere “An Efficient FPGA Implementation of Optical Character Recognition for License Plate Recognition” University of Windsor, ON, Canada, 2017 IEEE.


Index Terms

Computer Science         Automated Systems

Keywords

OCR (Optical Character Recognition), Automatic number plate recognition(ANPR).