

Automatic Number Plate Recognition Approach for Detecting the Vehicle Number Plate on the Go

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Abstract

Automated Number Plate Recognition system would greatly enhance the ability of police to detect criminal activity that involves the use of motor vehicles. This is a potential future system. This system used by local authorities and commercial organizations in all aspects of security, surveillance, access control and traffic management.

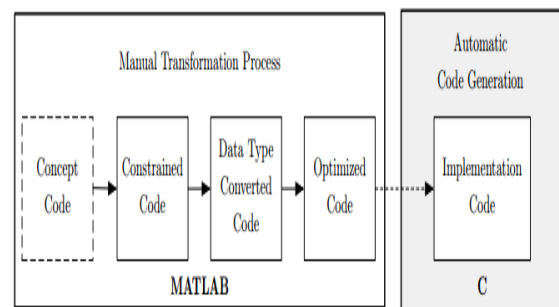
INTRODUCTION

Here we are recognition of number plates and we will send to the particular GSM Number .This project uses mainly at tollgate whenever we got fully crowded at festival times we will detect the car by using IR sensor and web cam capture the number plate and it will calculate the amount and send SMS to the registered mobile number

GUI

(Graphical user interface) GUI is known as Graphical User Interface. GUI is a MATLAB based tool which supports the operators in order to establish and evolve an integrate code and works efficiently. GUI is a most attractive and user helpful interface. Moreover, MATLAB offers an atmosphere and device known as GUIDE.GUIDE is an environment for the development of graphical user interface. It also permits GUIs to be generated or any type of modification intractably from fig. files. In order to start GUI, we need to write GUIDE on command window of MATLAB. Then a dialog box appears, select a blank page and click “OK” for further processing and to use GUI. GUI has two files namely: fig file and m file.

- .fig file - This file includes the full elaboration of the figure in GUI and also contains a constituents of the GUI based.
- .m file – This file includes the coding part on which GUI depends and performs the desired task. Using m file editor, the user can do coding on callbacks in this particular file



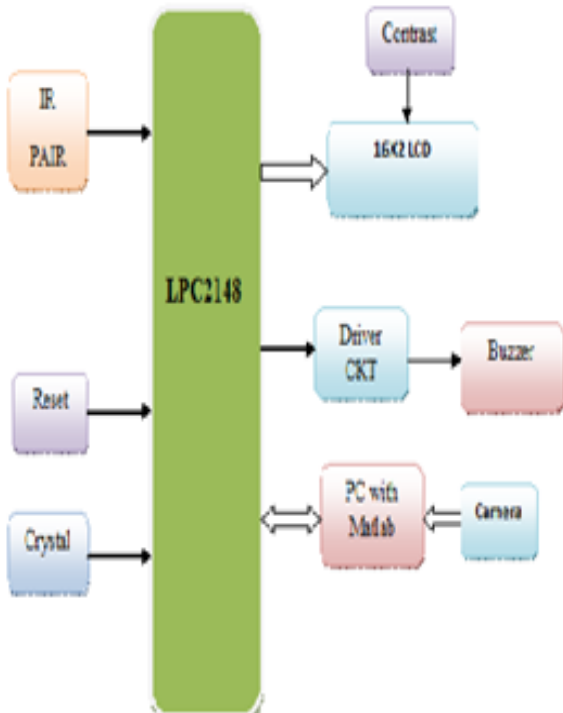
High-level view of proposed code generation workflow

EXISTING METHOD

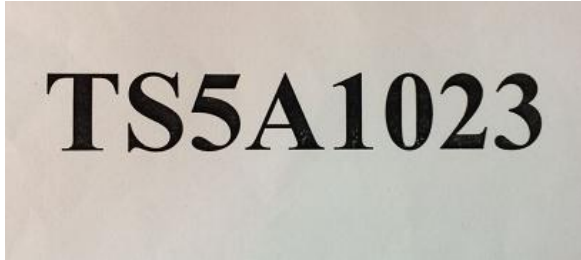
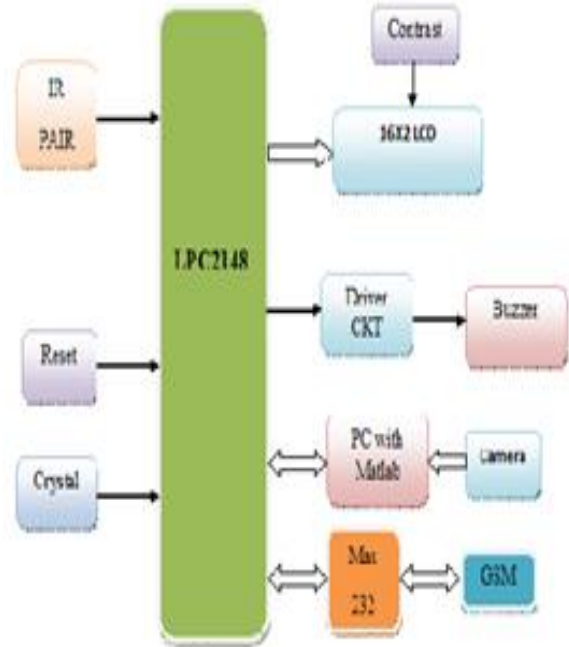
Automated Number Plate Recognition system would greatly enhance the ability of police to detect criminal activity that involves the use of motor vehicles. This is a potential future system. This system used by local authorities and commercial organizations in all aspects of security, surveillance, access control and traffic management. ANPR can also provide the protection petrol forecourts need against non-paying drive-offs.

This paper discusses a method for the vehicle number plate recognition from the image using a special form of optical character recognition (OCR).ANPR systems use optical character recognition to read number plates through CCTV systems, which enables vehicle

registration numbers to be stored, analyzed and retrieved, as required [Figure 1]. These systems can be fully automated to operate 24/7 and monitor unauthorized parking and vehicle movements in environments such as Access control points, Distribution centers, Hospitals and car parking areas.



Block Diagram



DRAWBACK: There is no GSM to send Message to Register Number

PROPOSED METHOD

These systems can be fully automated to operate 24/7 and monitor unauthorized parking and vehicle movements in environments such as Access control points, Distribution centers, Hospitals and car parking areas.

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REFERENCES

[1] Ganesh R. Jadhav, Kailash J. Karande, “Automatic Vehicle Number Plate Recognition for Vehicle Parking Management System” Computer Engineering and Intelligent Systems, ISSN 2222-1719 (Paper) ISSN 2222-2863 (Online) Vol.5, No.11, 2014.

[2] Amr Badr, Mohamed M. Abdelwahab, Ahmed M. Thabet, and Ahmed M. Abdelsadek, “Automatic Number Plate Recognition System”, Annals of the University of Craiova, Mathematics and Computer Science Series Volume 38(1), 2011, Pages 62–71 ISSN: 1223-6934 Special Conference Issue: National Conference on Cloud Computing & Big Data 8 [10] De Croon, G. C. H. E., K. M. E. De Clercq, R. Ruijsink, B. Remes, and C. De Wagter. "Design, aerodynamics, and



vision-based control of the DelFly."International Journal of Micro Air Vehicles 1, no. 2, pp 71-97, 2009.

[3] Sourav Roy, Amitava Choudhury, Joydeep Mukherjee, "An Approach towards Detection of Indian Number Plate from Vehicle", International Journal of Innovative Technology and Exploring Engineering (IJITEE) ISSN: 2278-3075, Volume-2, Issue-4, March 2013.

[4] Choudhury A. Rahman, WaelBadawy, Ahmad Radmanesh, "A Real Time Vehicle's Number Plate Recognition System ", Proceedings of the IEEE Conference on Advanced Video and Signal Based Surveillance (AVSS'03)0-7695-1971 ,2003 IEEE Harish D. Kendre,Gaurav V. Talokar, Mohan Girhe, Tejas Pidkalwar, " The Automatic Number Plate Recognition System (ANPR)", INTERNATIONAL JOURNAL OF MATHEMATICS AND COMPUTER RESEARCH, Volume 1 issue 3 April 2013 ISSN :2320-7167, pp. 99-102

[5] J.-W. Hsieh, S.-H. Yu and S.-H. Yu, Morphology-based License Plate Detection from Complex Scenes, IEEE Proceedings of the 16th International Conference on Pattern Recognition, Qubec City, Canada, August 11-15, 2002, Vol. 3 (2002), 176-179.