NO PARKING VEHICLE DETECTION

A PROJECT REPORT

Submitted by

AKHIL MS

AJITH KRISHNA

in partial fulfillment for the award of the degree

of

MASTER OF COMPUTER APPLICATIONS

HAJI C.H.MOHAMMED KOYA MEMORIAL COLLEGE FOR ADVANCED STUDIES (AFFILIATED TO KERALA UNIVERSITY)

CHAVARCODE

PALAYAMKUNNU P.O., 695146

THIRUVANATHAPURAM DISTRICT,

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BONAFIDE CERTIFICATE

Certified that this project report "**NO PARKING VEHICLE DETECTION**" is the bonafide work of **AKHIL M S** who carried out the project work under my supervision.

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ACKNOWLEDGEMENT

I would like to express my gratitude to God for giving me good health and better courage to accomplish this project successfully.

I express my deep sense of gratitude to **Prof M. Sirajudeen**, Director of Department of MCA, HAJI C.H.MOHAMMED KOYA MEMORIAL COLLEGE, Metca Land, Chavarcode, for proving me an opportunity for doing this project work.

Special thanks to **Mr. Rajesh. S**, Associate professor and Head of Department of MCA, for providing all possible facilities to make this project be a success.

I take this opportunity to express my sincere gratitude and indebtedness to my internal guide **Mrs. Nisha A**, Assistant Professor, Department of MCA for her expert and valuable guidance, inspiration and fruitful discussions rendered throughout for successful completion of the project.

With great pleasure I may record my deep gratitude to all staff members of MCA Department for the immensurable help rendered to me during the course of the project.

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TABLE OF CONTENTS

Page

ACKNOWLEDGEMENT ……..……..iv

TABLE OF CONTENT……..….……..… v

ABSTRACT ……vi

CHAPTER

1. INTRODUCTION……1

1.1 Statement of the Problem…….…….....2

2. SYSTEM ANALYSIS ……3

2.1.Existing System ……..... 3

2.2.Limitation of Existing System …….. 3

2.3.Proposed System…….. 3

2.4.Advantages of Proposed System……..……. 4

2.5.Feasibility Study…… 4

3. SYSTEM SPECIFICATION……..…….6

3.1. Minimum Software Requirements……...…..……. 6

3.2. Minimum Hardware Requirements ..…… 6

4. SYSTEM DESIGN…….. 7

4.1. Context Level Diagram …….. 7

4.2. Data Flow Diagram …… 7

4.6. Design of Each Subsystem……..... 11

4.7. UML Diagrams…….... 12

4.7.1. Use Case Diagram…… 12

4.7.2. Sequence Diagram..…… 13

5. CODING…….14

5.1. Features of Language…..……. …14

5.2. Functional Description…….....16

6. TESTING……32

7. IMPLEMENTATION ……34

8. SECURITY, BACKUP AND RECOVERY MECHANISMS..... 35

9. CONCLUSION…… …… 36

10. FUTURE ENHANCEMENT…..…… ……37

APPENDIX…..……38

Input And Output Forms……38

BIBLIOGRAPHY……41

ABSTRACT

No-Parking Vehicle Detection (NPVD) system is one type of intelligent transportation system (ITS). It is a type of technology in which the software enables computer system to read automatically the license number plate of vehicle from digital pictures. Reading automatically the number plate means converting the pixel information of digital image into the ASCII text of the number plate. This paper discuses a method for the vehicle number plate recognition from the image using mathematical morphological operations. The main objective is to use different morphological operations in such a way that the number plate of vehicle can be identified accurately. This is based on various operation such as image enhancement, morphological transformation, edge detection and extraction of number plate from vehicle image. After this segmentation is applied to recognize the characters present on number plate using KNN Algorithm. This algorithm can recognize number plate quickly and accurately from the vehicles image.

TABLE OF CONTENTS

Page

ACKNOWLEDGEMENT ……..……..iv

TABLE OF CONTENT……..….……..… v

ABSTRACT ……vi

CHAPTER

1. INTRODUCTION……1

1.1 Statement of the Problem…….…….....2

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APPENDIX…..……38

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TABLE OF CONTENTS

Page

ACKNOWLEDGEMENT ……..……..iv

TABLE OF CONTENT……..….……..… v

ABSTRACT ……vi

CHAPTER

1. INTRODUCTION……1

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