Automatic Number Plate Recognition

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Introduction

Automatic Number Plate Recognition is an image-processing technology used to identify vehicles by their license plates. This technology is used in various security and traffic applications.

An Intelligent Transportation System equipped with this technology can provide:

· Flexible and automatic **highway toll collection** systems

· **Analysis** of city traffic during peak periods

· Enhanced **vehicle theft prevention**

· Effective **enforcement of traffic rules**

· Highest efficiency for **border control systems**

· Flexible and **automatic vehicle entry** to and exit from a **car park**

Other possible applications include:

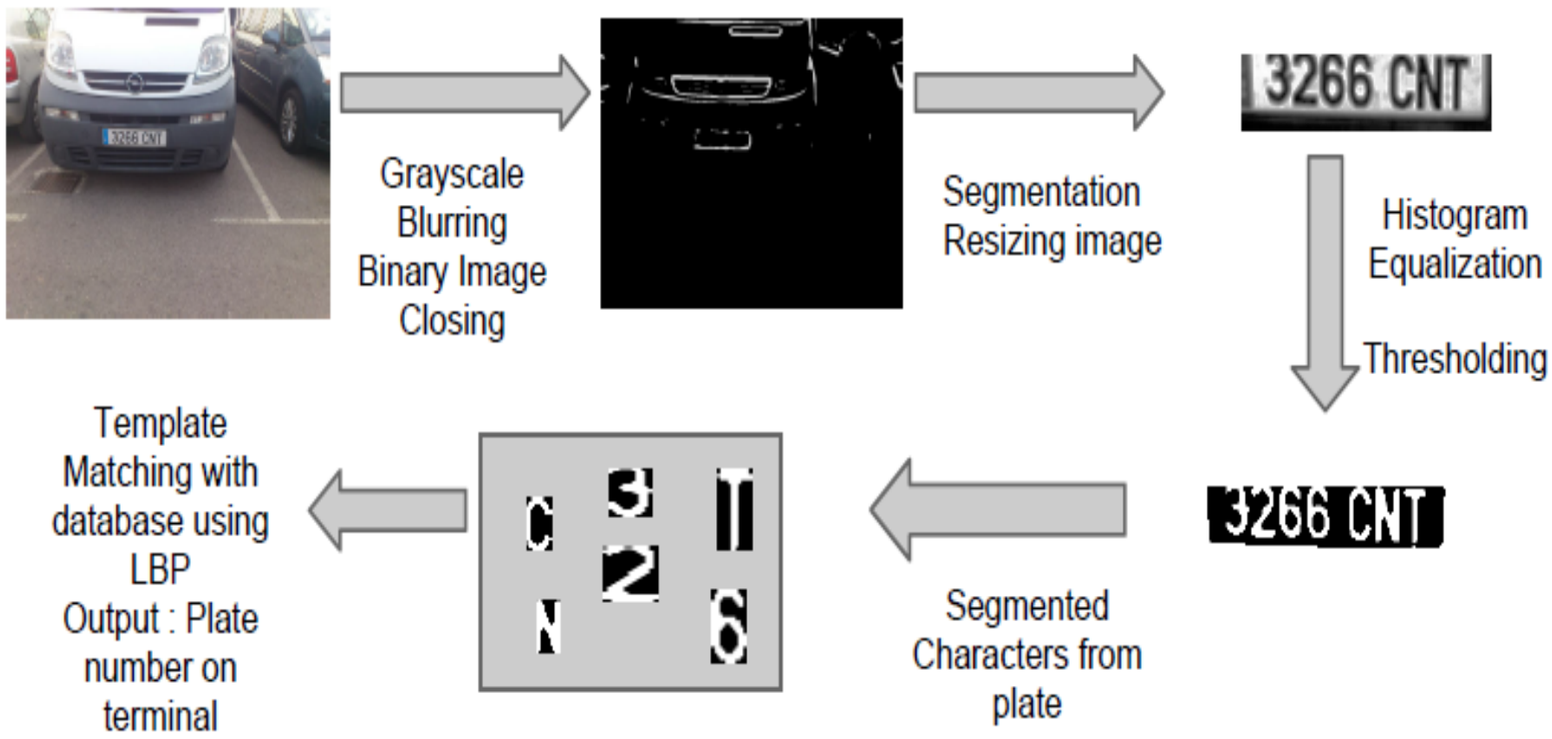
· Building a comprehensive database of traffic movement

· Automation and simplicity of **airport and harbour logistics**

· **Security monitoring** of roads, checkpoints, etc.

· **Vehicle surveillance** - Prevention of non-payment at gas stations, drive-in restaurants, etc.

Algorithm Overview



Results/Conclusions

After applying the above steps, we get the final extracted number plate digits that are printed on terminal.

Technical Issues

There are possible errors in reading number plate for confusing characters. While extracting letters/ digits, algorithm may recognize 6 as ‘G’ or , 8 as ‘B’, or , ‘0’ as ‘O’ or vice versa. This is because of the similarity in shape between them.

References

http://docs.opencv.org/