Universidad de las Fuerzas Armadas ESPE

Engineer in Technology of Information

Object Oriented Programming (2858)

Recognition of Plates of the Car

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Overview

Our vision is to carry out a program which allows us to recognize license plate numbers, based on a photograph, through a txt database that will inform us if the known license plate is accepted for entry or not.

Objectives

1. Automatically identify alphanumeric characters from an image.

2. Convert the text that appears in an image into a text file, generating an input confirmation.

3. Digitize the information.

Specifications

This project wishes to establish the use of technology through image recognition, to solve certain problems that are established in people's daily lives, to facilitate certain actions and avoid wasting time, as well as the security issue of the same.

It is compared from an image, based on True and False. When the image is correct, a signal is generated, determining that it is true, and it will give a result "PLEASE ENTER", which will have a time limit for entry. If the image does not match, a result will be displayed "DOOR WAS NOT OPENED"

Background

In the university parking lot, cars enter using cards, which they recognize in a reader to open the security bar, but the problem is that people often forget their card or find it difficult to approach the card reader.

Solution

It is to establish IP cameras which recognize the plate with a sensor which determines if it is a car on it so it will proceed to take a photograph, this image will be processed by software, I sent said image to consult the database

and identify if the compared data is in the system, activate the bar, otherwise there is no activation.

Conclusions and recommendations

1. We see that so far the margin of error of our project is still high, which we can determine that we have a 25% error.

2. By controlling this type of treatment, the uses are quite acceptable and applicable in several areas.

Bibliography

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