Abstract

In this final project a tool that can detect the availability of four wheel vehicle parking slots is proposed by using a camera in indoor area. The parking slot image obtained from the camera are then goes through an image processing process using haar cascade algorithm method in order to detect an empty parking slot. The image processing process using the languange python and the OpenCV library that occurs on a laptop/PC. Furthermore, the output of this system is displayed on the website as a medium for monitoring the availability of parking slots which are named "Parkir Bosque". This tool successfully detects the number of parking slots and the availability of each parking slots with 100% accuracy through an environmental comparison of 1:33. On the website "Parkir Bosque" also successfull to display output according to the input given by the user.

Keywords: Transportation, Parking Slot, Camera, Website, OpenCV