

## ABSTRACT

Autospots is a parking assistance system that helps users find available parking spaces. Using cameras placed in parking lots, we process images and use computer vision to successfully find open parking spaces. Users can then be navigated to near by parking lots via the mobile application

## FEATURES

- Auto-detection of open parking spots
- Mobile App that finds and navigates to open parking spaces
- View lot images with highlighted open spots
- Setup your own parking lot to be hooked into our system via our website
- Parking lot statistics

# AUTOSPOTS

Computer Vision Parking Assistance

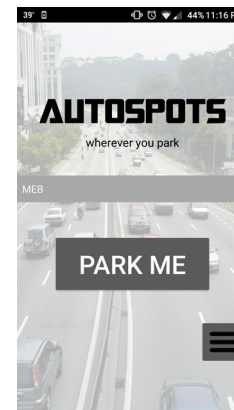
## COMPUTER VISION



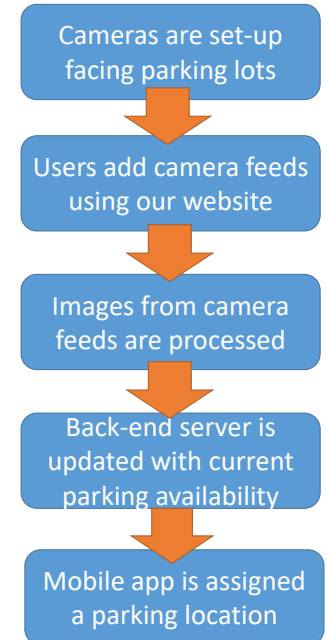
Our computer vision code Darknet image recognition techniques as well as classic computer vision algorithms. We have improved on these techniques by extending the code to work on parking lots, and improving the accuracy of vehicle detection by implementing a voting system on the techniques so we can weigh the more accurate algorithms to give us better results.

## MOBILE APPLICATION

Once your location has been acquired, you are assigned a spot and directed to it. You can even start the navigation to the parking lot if you're far away and headed that direction. The app will keep an eye on your location and assign you a spot once you're close enough to the lot.



## SYSTEM OVERVIEW



## WEBSITE

We have founded [Autospots.org](https://Autospots.org) to allow users setup their own parking lot to use with our system. Users need to link their camera and define parking boundaries input the GPS coordinates the parking lot. Our system takes care of the rest! We have created a detailed tutorial to show users how it is to be done.