

Software Tender

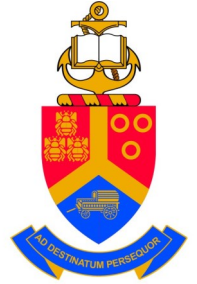
Dr Dalton Lunga
dlunga@csir.co.za
CSIR Meraka Institute



Smart Parking

Team Members

{ Po-Han Chiu
Michael Johnston
Uteshlen Nadesan }



University of Pretoria

Introduction

We are a team of third year Computer Science students that is passionate about Information Technology. We are interested in how technology can make our lives easier and systems more efficient in our surrounding communities. We are interested in this project because we can see the benefits of this project and are willing to dedicate our time to make this project work.

Problem Description

It may cost a driver lots of time in a parking lot just to look for a parking spot because there are many cars already occupying the parking lot. Parking is in short supply around a university. If a driver overlooked a parking spot, by the time the driver gets back to that same spot, another car would have taken it. That is why a system should be designed and developed to inform drivers of the nearest parking spot so they don't waste time searching for one. The system should provide drivers with easy access through their smart phones and tablets.

Proposed Solutions

Our solution would depend on what resources are available at the parking lot. If sensors are used above each parking spot (like some parking lots at OR Tambo Airport), we can give the user an exact location of an available parking spot. However, if the parking lot is similar to the ones at Hatfield Campus (where there are separate parking lots), we could put sensors at the entrances and count the number cars that are in each parking lot. Users would then be informed of the closest parking lot to them that still has spots available.

We are an ideal group for this project because we are dedicated, and have a team member that is good at working with electronics.

Thank you for your time.

Sincerely,

Michael, Po-Han and Uteshlen.