



WeGo&Park

An intelligent parking space detection system.

Location of available public parking through a novel detection method using real time video processing distribution.

Scenario:

To date, searching for parking is entirely dependent on drivers' luck. This has several drawbacks: it can take a long time to find a parking spot, an unnecessary increase in the use of fuel, the level of pollution by CO2 emissions, let alone the cost for the driver.

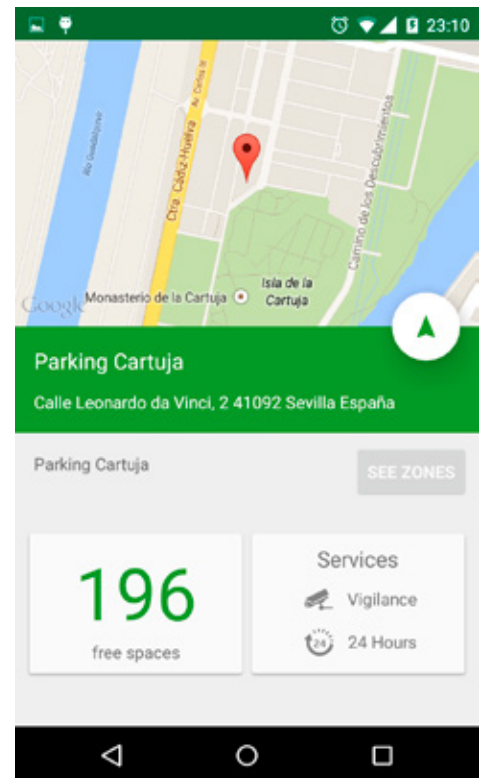
Solution:

WeGo&Park's parking search is based on a novel detection method using distributed video processing in real time from a network of cameras strategically placed to cover the desired parking area.

This kind of solution is much more economical and versatile than ground-based sensors.

Parking availability can be searched by users of any type of vehicle. Thanks to the system, they will be able to quickly and simply find available parking in their driving vicinity or close to their destination, avoiding unnecessary lost time.

The camera technology reduces infrastructure costs when compared to implementation of sensors on the pavement.



Benefits:

- Improved parking search time for citizens.
- Capitalizing on surveillance and urban traffic camera infrastructure. One camera can cover up to 50 parking spots depending on the setting and the arrangement of the camera. This system is also more cost effective system than installing 50 sensors.
- Improved parking violation prosecution by alerting local authority.
- User navigation.
- Sustainable Development: the parking search time is reduced, also reducing fuel costs and the level of pollution and CO2 emissions.
- Better services for citizens by posting information on public parking availability.
- User feedback enables system feedback.
- Better management in special parking zone.

How does it work?

ACTION

The camera system is responsible for processing the video in a distributed manner to detect parking space occupancy based on various criteria:

- Space Type: free parking, paid parking, area residents, no parking zones.
- User profile based search.
- Space size: utility, van, truck, bus, etc.

SEARCH

Using a mobile application, drivers can quickly and easily find available parking spots for their specific kind of vehicle in the area where they are driving or close to their destination.

PARKING

WeGo&Park allows search for parking space and book reservation as well as provide driver navigation to the detected location. The information is accessible from a web responsive application (PC, tablet and smartphones).

Solution Outline:

