SMART PARKING

Madhangi R (2015103062) Venkatesh P (2015103051)

Abstract

Due to rapid increase in the number of motor vehicles parking has become a major issue.

People spend a lot of time to search a free parking space leading to traffic congestion.

For such problems, smart parking system helps the people to find the nearest available parking slot.

Objectives

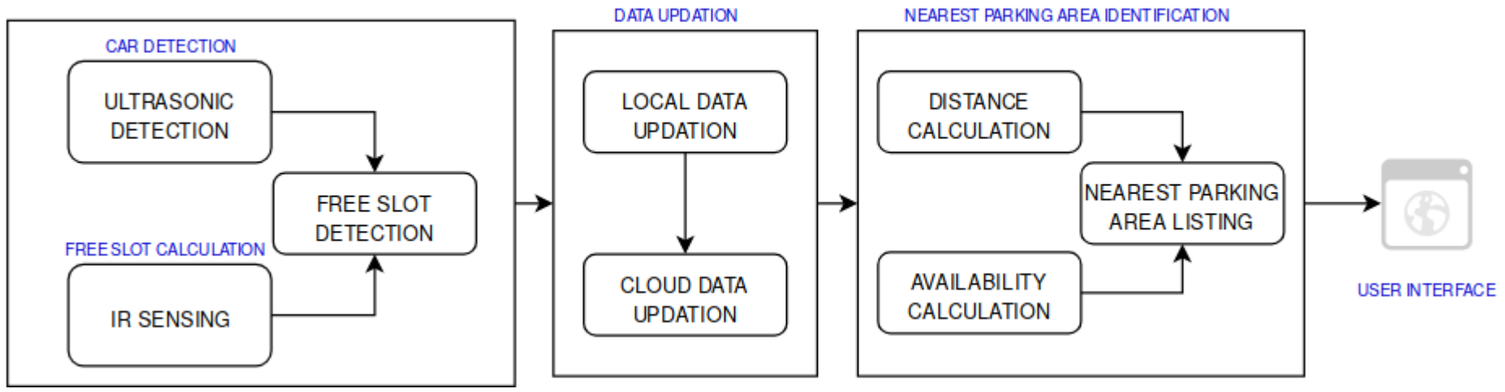
To reduce the driving time required to find parking slots

To reduce fuel wastage due to longer time in finding a parking spot.

To find nearest parking spot available

To make optimal use of available parking slots

System Architecture



Result Analysis

Accuracy of IR Sensor :

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Max. Distance : 3cm

Srawback : Detect any object pssing through the sensor as vehicle

Accuracy of Ultrasonic Sensor:

Max. Distance : 60cm

Drawback : Accuracy is very low (80%)

Conclusion

Smart cities have always been a dream for many. Smart parking facilities are of crucial importance for such smart cities. By the devlopment of smart parking, people no longer have to roam about to find a free parking spot and waste their time and fuel.

Major References

V.W.S.Tang,Y.Zheng,J.Cao,"An Intelligent Car Park Management System based on Wireless Sensor Networks",Pervasive Comput.Appl.2006 1st Int.Symp.,pp.6570,2006.

https://www.instructables.com/id/Automatic-Car-Parking-System/

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