Abstract

Parking problems are a common problem in most major cities. The limited availability of parking space results in traffic congestion, air pollution, time consuming as well as economy of the nation. The price for parking expansion is usually prohibitively or extremely high. All above various problems can be overcome by constructing a parking area that is embedded with Wireless Sensor Network Technology. Car-park management systems operate by monitoring the availability of car-parking spaces and making that information available to customers and facility administrators. The prototype contains system architecture, software, hardware including its implementation phase. Our goal is to construct a car park system which is equipped with sensors and provides surveillance. We are developing a novel miniaturized modular platform for wireless sensor networks. The system architecture, hardware and software will be discussed as well as details of the deployment scenario chosen for the prototype of a car park management system.

References

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**Index Terms**

| Computer Science | Wireless |

**Keywords**

- Infrared Sensor (IR)
- Wireless sensor networks (WSN)
- Radio frequency identification tag (RFID tag)
- Radio frequency reader (RF Reader)

Liquid crystal Display (LCD).