Comparative Implementation of Automatic Car Parking System with least distance parking space in Wireless Sensor Networks

Mala Aggarwal*, Simmi Aggarwal**, R.S.Uppal***

* M.Tech Scholar, Department of Electronics, B.B.S.B.E.C., Fatehgarh Sahib, Punjab
** M.Tech Scholar, Department of Computer Science, MDU Rohtak, Haryana
*** H.O.D. Department of Computer Science, B.B.S.B.E.C., Fatehgarh Sahib, Punjab

Abstract- Recently, with the rapid development of micro electronics technology, wireless communication technology and embedded system, the technology of wireless sensor network (WSN) has been advanced a lot. At the meanwhile, more and more producers and international organizers want to make the mote more intelligent and standard. Sensor Networks being considered as an emerging area of research in recent years has evolved in itself a large potential to counteract the ongoing system. By networking large numbers of tiny sensor motes, it is possible to obtain data about physical phenomena that was difficult or even sometimes impossible to obtain in conventional ways. Automatic multi-stored car parking system is very good substitute for car parking area. Since in modern world, where space has become a very big problem and in the era of miniaturization its become a very crucial necessity to avoid the wastage of space in modern, big companies and apartments etc. For example, in a space where more than 100 cars need to be parked, it's a very difficult task to do and also to reduce the wastage of area, this system can be used. This Automatic Car Parking enables the parking of vehicles-floor after floor and thus reducing the space used. Here any number of cars can be park according to requirement. These make the system modernized and even a space-saving one. This idea is developed using AVR Microcontroller. Here program is written according to this idea using AVR ATMEGA 16 microcontroller. This Automatic Car Parking enables the parking of vehicles-floor after floor and thus reducing the space used. Here any number of cars can be park according to requirement. These make the system modernized and evens a space-saving one. This idea is developed using AVR Microcontroller. Here program is written according to this idea using AVR ATMEGA 16 microcontroller. Mathematical modeling is also done to identify the least car parking space available among the difference parking places in a city. The car parking systems is already developed with the 8051 microcontroller, we have implemented multistory car parking using AVR ATMEGA 16 microcontroller with Zigbee wireless transceiver module.

Index Terms- Alfa Vizad RISC (AVR) Microcontroller, Institute of Electrical and Electronics Engineering (IEEE), ZigBee module, Wireless sensor networks (WSN), Wireless personal area Network (WPAN).

I. Introduction

With the rapid proliferation of vehicle availability and usage in recent years, finding a vacant car parking space is becoming more and more difficult, resulting in a number of practical conflicts. Parking problems are becoming ubiquitous and ever growing at an alarming rate in every major city. Wide usage of wireless technologies with the recent advances in wireless applications for parking, manifests that digital data dissemination could be the key to solve emerging parking problems. Wireless Sensor Network (WSN) technologies have attracted increased attention and are rapidly emerging due to their enormous application potential in diverse fields [4]. This field is expected to provide an efficient and cost-effective solution to the effluent car parking problems. This paper proposes a Smart Parking System based on wireless sensor network technology which provides advanced features like automated guidance. The paper describes the overall system architecture of our embedded system from hardware to software implementation in the view point of sensor networks. This paper also shows that the pre existing security surveillance (CCTVs) will be used as a sensing nodes to identify vacant parking space. The captured image will be processed through the AVR Microcontroller and the processed data will be transmitted via ZigBee to a central computer to store and update the occupancy status of available parking space vacancies in the database. The performance of this WSN based system can effectively satisfy the needs and requirements of existing parking hassles thereby minimizing the time consumed to find vacant parking lot, real time information rendering, and smart reservation mechanisms. ZigBee [1,2] defines the higher layer communication protocols built on the IEEE 802.15.4 standards for LR-PANs. ZigBee is a simple, low cost, and low power wireless communication technology used in embedded applications. ZigBee devices can form mesh networks connecting hundreds to thousands of devices together. ZigBee devices use very little power and can operate on a cell battery for many years. There are three types of ZigBee devices: Zig Bee coordinator, ZigBee router, and ZigBee end device. Zig-Bee coordinator initiates network formation, stores information, and can bridge networks together. ZigBee routers link groups of devices together and provide multi hop communication across devices. ZigBee end device consists of the sensors, actuators, and controllers that collects data and

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