Automatic Car Parking System Using 89s52 Microcontroller

Car Parking Using Puzzling Logic With Code Lock System Ashwini Pachhade 2013 In today's developing world, 'Electronics' have made many impossible things possible, the whole world is revolving around electronics. Due to automation the working at risky places has become easier than what it was few years ago. Now a days, in all the fields we work into, there are many gifts of electronics. We are developing a system of 'Automatic Car Parking' which will be controlled by a single chip micro-controller. The system is developed using the puzzle logic.Thus plenty of cars can be parked in this fashion. In metro cities and multi-story buildings, there is no enough space for parking cars. Hence this car parking system makes it possible to park cars in multi floor fashion.
Real Time Car Parking System Using PIC Tushar Jaware 2017-06-08
Smart Automated Parking System-using Number Plate Recognition Technology[electronic Resource] Chee Wei Lee 2009
Security and Privacy Applications for Smart City Development Sharvari Chandrashekhar Tamane 2020-10-01 This book explores the fundamentals of smart cities along with issues, controversies, problems and applications concerning security and privacy in smart city development. Future smart cities must incorporate innovations like smart rainwater harvesting, smart street lighting, digital identity management, solar energy, intelligent transport systems and emerging communication applications. The target audience of the book includes professionals, researchers, academics, advanced-level students, technology developers, doctors and biologists working in the field of smart city applications. Professionals will find innovative ideas for marketing and research, while developers can use various technologies like IoTand block chain to develop the applications discussed here. As the book shows, by integrating new technologies, the cities of the future are becoming a reality today.
Parking Lot System Using Microcontroller 2005
Proceeding of First Doctoral Symposium on Natural Computing Research Varsha H. Patil 2021-03-18 The book is a collection of papers presented at First Doctoral Symposium on Natural Computing Research (DSNCR 2020), held during 8 August 2020 in Pune, India. The book covers different topics of applied and natural computing methods having applications in physical sciences and engineering. The book focuses on computer vision and applications, soft computing, security for Internet of Things, security in heterogeneous networks, signal processing, intelligent transportation system, VLSI design and embedded systems, privacy and confidentiality, big data and cloud computing, bioinformatics and systems biology, remote healthcare, software security, mobile and pervasive computing, biometrics-based authentication, natural language processing, analysis and verification techniques, large scale networking, distributed systems, digital forensics, and human–computer interaction.
SmartPark Christina Fuentes-Curiel 2013 Parking garages have remained fairly outdated even as embedded systems have been introduced virtually everywhere to improve the human existence. Some provide information about whether they are full or not, but that does not offer a better parking experience, it only informs people once they are already there and is inconvenient. This causes people to circle the parking lot numerous times, making the process inefficient and wasteful. The SmartPark parking system fills that gap by providing an automated infrastructure that collects information regarding the availability of parking spaces in a garage. As modern technology grows and expands the connectivity available on automobiles, it would be even possible to interface with the car itself to provide parking information. Each space has an ultrasonic sensor attached to a microcontroller that communicates with a master, who keeps and displays the overall count of spaces available. The purpose of this paper is to provide the capability of dynamically adding and removing slaves, without requiring individual configuration for

each slave prior to its deployment. A sequence of communication exchanges will be described in order for a slave to register itself with its master. Through a series of messages, the slave will be able to identify its location and begin reporting the state of its space, and the master will continue to keep track of existing slaves and their states. The result of the research is a protocol that allows successful pairing of a new slave with its master without previous static configuration, which allows an easy deployment of the system without dependence on its original configuration. This functionality will make the system more scalable, allowing the parking system to be extended by connecting new slaves wherever they are needed. It will also make it more maintainable, since slave replacement or relocation will become an easy task. SmartPark can easily be adapted to existing parking structures with only the installation of the master and slave nodes, due to its limited resource requirements. Related work is also discussed and an insight into how this methodology can be used to modernize current automated parking systems is provided.

Automated Parking System Prashant Mishra 2018 Today with the growing number of vehicles in the metropolitan cities, there is high demand for a smart parking management system. When people reach their destination, searching for a parking slot to park their vehicle itself creates lots of traffic congestion in the parking lot/roads taking their precious time. Hence there is a need for a smart parking management system assisting the users with the information about the availability of parking slots at the entrance of the places like malls, organizations etc. they visit for avoiding congestion, irritation and tension. The proposed solution system in this paper tries to resolve this by detecting the available slots for parking in the parking area using IoT technologies and displaying the same on a webpage/display for user's kind reference. This system also provisions the users to book the free parking slot soon after entering the parking area thus solves the internal congestion inside the parking lot, saves their valuable time and relieves people from tension.

Modeling and Simulation of an Automated Parallel Parking System Using Hybrid Petri Nets Keerthanaa Ramesh 2015 In recent years, there have been a lot of technology innovations to automate the day to day processes done by every person. These days the automobile manufacturers introduce new features in their cars, in order to improve customer experience, like Adaptive cruise control, Parallel park assist, etc. The objective of this thesis is to model an automated parallel parking system and to simulate the system behavior, by taking into account the high level events which happen when a car is parallel parked. The tool used in this thesis to model and simulate the system is Hybrid Petri net (HPN), which is versatile to model the real life systems. Chapter 1 deals with a brief introduction of the related work in Hybrid Petri net modeling of real life systems, automatic parallel parking systems and how the concept for modeling the parallel parking system was developed. Chapter 2 deals with the general introduction about Discrete, Continuous and Hybrid Petri nets and their dynamics which are essential for understanding this thesis. Chapter 3 deals with the development of the model and the various stages in the model development. Errors encountered in each stage is briefly discussed and the improvements are discussed in the next stage of development. This chapter concludes with the final integrated model and operation of the model. Chapter 4 deals with the discussion of results obtained when the model is tested in MATLAB and SIMHPN (which is a Matlab embedded simulation program). The results are compared, the system behavior is observed and the purpose of the thesis is justified. In Chapter 5, a conclusion is provided to summarize the entire thesis.

Smart Automotive Parking System Natarajan Sasirekha 2023 Nowadays all commercial complexes have vehicle parking facilities. When we go for parking the vehicle, only after getting into the gate, we can find the availability of space. To avoid this, we have developed a Smart Automotive Parking System. We can easily able to get the data that how many slots are available or booked to park the vehicle. These are all indicated by Liquid Crystal Display (LCD) placed outside the closed parking space, and also with an android application installed on our mobile phone. This becomes feasibly available for drivers to know whether vehicle parking space is free or not. A Smart automotive parking system

using an android application provides a convenient method for the users to reserve the parking slot on-line. Within the aim of reducing the traffic downside publicly that consumes a lot of time, this paper explains the economic solution for the prevailing problem. Due to the probability of technology used, this often consists of fewer hardware circuits and mainly software restrained. This technique becomes the basis for all the related systems in the future. The application includes parking of any type of vehicles using this method. Its advantages are it occupies less area, low power consumption, and avoids the traffic. By implementing this methodology, we will be able to scale back the time consumption because of checking out a parking slot and traffic frustration of drivers. *Development of Storage and Retrieval Algorithms for Automated Parking Systems* Chao Dou 2012 This thesis presents development of a complete suite of informed search algorithms to manage multiple concurrent requests, in real time and in a dynamic context, for storage and retrieval of robotic load-carrying carts for a fully- automated and driving-free parking lots or storage warehouses. A set of informed search algorithms including D* Lite and A* with domain-specific heuristics, and the uninformed search algorithm Uniform Cost Search are integrated for path search and planning in a completely-automated framework. The problem domain is considered as a rectangular array of parking or storage cells with several cells allocated to entry-exit points such as elevators: the storage topology does not have any driving lanes other than an allocation of blank cells where all storage is conceived to be on moveable carts. It is further assumed that the entire floor can be fully occupied with the exception of blank cells, which need to be leveraged to form temporary passageways for carts on the move for storage or retrieval. The number of blank cells is determined to maximize the storage or parking capacity and yet must be large enough to facilitate to serve the multiple and concurrent storage and retrieval requests in real time. Multiple carts are considered to be potentially moving in a layout where each moving cart will likely make a change to the environment by relocating carts in its way as it moves. Strategies for storage in the parking lot or the warehouse to facilitate a quick completion through following a path that is as close as possible to the optimal or shortest path are proposed. A software simulator based on multi-threaded Java code was developed to perform empirical testing and validation of the performance of the proposed integration framework for the set of path search and storage strategy algorithms. A parking lot with 400 (20*20), 800 (20*40), 1200 (30*40), and 1600 (40*40) parking or storage spots was considered. A small percentage of parking spots were reserved as available blank cells to facilitate movement of robotic carts carrying the car to its storage or retrieval destination location. A typical business day scenario where morning rush hour that fills the parking lot to its maximum capacity at its conclusion and the evening rush hour that nearly empties the entire parking lot from a fully-occupied state was considered. Multiple concurrent and combination of storage and retrieval requests were generated. The performance effect of immobilized carts that form fixed obstacles on the parking floor was considered. The performance of the proposed system was assessed and evaluated using a number of performance metrics that included the actual path length, real-time response of the search and planning algorithms, the combined memory cost of the search processes, and the ability to serve multiple requests. Simulation results indicate that the automated parking and retrieval system presented in this thesis is feasible and practical. The actual path lengths measured through the number of movements per request is close to the computed shortest path length, which means the system provides a nearly optimal path for each request. The system provides a quick response during the path planning process even in the presence of tens of concurrent storage and retrieval requests and numerous immobilized carts to make it possible for deployment in real-time environments. The simulation study results further indicated that the developed system could handle over 100 concurrent requests with manageable process memory cost. The simulation study indicates that the set of algorithms developed are suitable for fully-automated and robotic parking floors to serve tens of concurrent storage-retrieval requests in real time with manageable

computing resources under real-life scenarios. Rotary Smart Vehicle Parking (Rsvp) Baljinder Kaur 2023-08-08 In metropolitan cities, vehicle parking has become a major concern in all busy areas and a good traffic system needs a good parking system. Different types of vehicle parking are applied worldwide namely Multi-level Automated Car Parking, Automated Car Parking System, Volkswagen Car Parking, etc. The present project work is aimed to develop a reduced working model of a car parking system for parking 6 to 24 cars within a parking area of 32.17 m2. The chain and sprocket mechanism are used for driving the parking platform and a one fourth hp brake motor shall be implemented for powering the system and indexing the platform. The platform is fabricated to suit the working model. The procurement and manufactured items are in hand and are ready to be assembled with the structure. This model is further useful for different branches of engineering in order to develop different types of automations like PLC, Micro controller and computerization etc. By testing analyzing the working model we can defiantly get the view to develop the parking lots at difficult and busy commercial places. The present project work is completed up to fabrication of different parts and the structure and is ready to be assembled. The final assembly is going on and would be completed shortly

Arduino Smart Car Parking System Mehmet AVCU 2020-12-27 Arduino Smart Car Parking System

Proposal for Automatic Parking System for the City of Fresno Advance Data Systems 1966

Automated vehicle parking system Redar Saleh Ibrahim 2024 This project focuses on improving urban parking by tackling the issues we have in traditional parking systems nowadays. Current research highlights the problems with regular parking, such as occupying too much land which causes environmental concerns, risk of satety, and traffic congestion, pushing us to explore new ideas. The car lift park concept Stands out as a potential solution, aiming to make parking smarter and more efficient. By building on what we know about automated parking and vertical structures, this project adds new insights to how we can rethink parking. The study may question how well car park elevators may work or if they are even efficient to use, the main goal is to check and prove, if possible, how they can use Space more efficiently, make the process of parking easier for users, and improve safety overall. To reach these goals, we'll collect information and test different parking methods. Also, how much space is needed, and collect user feedback to see their preferences. Finally, we hope to build a small tower parking system model, using a microcontroller, motors, a display, and various sensors. The design is inspired by RR Parkon, a car elevator manufacturer based in India. The system will be tested and evaluated based on its reliability , safety, effectiveness, and efficiency and usage of space.

Automated Car Parking Management System using LabVIEW and IR Sensors Bandar Hezam 2023-12-05 Seminar paper from the year 2019 in the subject Engineering - Computer Engineering, grade: A, , language: English, abstract: This project, introduces an automated and efficient solution for car parking management. Utilizing LabVIEW's front panel and block diagram functionalities, the system is specifically designed to automate the entry and exit processes in a car parking facility. The incorporation of an LCD provides real-time information on the total number of parked cars and available parking spaces. The project employs a slide switch to detect vehicle entry and exit, preventing further entries when the parking area reaches full capacity. In such cases, a "NO SPACE FOR PARKING" message is displayed on the LCD in red, signaling that the parking facility is at maximum capacity. The system ensures that the entrance gate remains closed if there is no available parking space. Upon a vehicle leaving the park, the controller updates the count and allows other vehicles to enter. To address limitations of existing systems, the proposed solution integrates IR sensors. These sensors not only determine the availability of parking slots but also allocate and de-allocate them based on the presence of vehicles at entry and exit points. This innovation eliminates the time-consuming process of searching for an empty parking slot in a large area, providing a more user-friendly and efficient car parking management system. The inclusion of LED indicators further enhances user experience by

signaling the availability of parking spaces in real-time, with green indicating availability and red indicating occupancy.

Automatic Parallel Parking Alan Tofeq Slewa 2014 The project is about mounting an assistant driver to a car that is going to make a parallel parking autonomously on a prototyping RC (remote control) car. The path planning will involve one trial reverse maneuvering. The maneuvering will be ensured by only connecting two sensors to a microcontroller. This is to identify the parking area and manage not to hit any object around the car body. There will be two types of motors used in the prototyping car including a servo and a DC motor. The DC motor will drive the car forwards and backwards and the servo will control the mechanism of the two front wheels to rotate right and left. The backward parallel parking involves some geometrical based calculations according to Ackerman's theorem coded in an embedded system on the vehicle.

Time Efficiency Analysis of an Automatic Parking System Anila Mishra 2012 Abstract: In this thesis, a time analysis for parking and retrieval process inside an Automatic Parking system (APS) by five different set of Automated Guided vehicle (AGV) systems has been performed. The time analysis has been done to check the performances of different APS configurations, which is based on the varying combinations of system's parking spaces and its entries and exits. The number of entries/exits in the systems governs the number of AGVs in use by the various system configurations. The APS configurations considered in this study include, systems with one entry/one exit and 2 AGVs, systems with two entries/two exits and four AGV's, systems with three entries/three exits and six AGVs, systems with four entries/four exits and eight AGVs, and lastly, systems with five entries/five exits and ten AGVs. The number of APS parking spaces considered in this study includes 50, 100, 150, 200, 250, 500, 1,000, 1,500, 2,000 and 2,500 spaces. The time taken by the AGV systems to park/retrieve a vehicle in an APS has been compared with a maximum acceptable time for the parking/retrieval process as found in the literature W. Based on the results obtained, observations have been made about the relationship between the number of parking spaces in an APS and the corresponding number of entries/exits required to perform the parking/retrieval process efficiently. Furthermore, suggestions have been made for the future simulation analyses.

Effective Parameters to Design an Automatic Parking System Hossein Borghei Razavi 2023 The automated parking system is an extensive branch of smart transport systems. The smartness of such systems is determined by different parameters such as parking maneuver planning. Coding this control system includes vehicle parking and understanding the environment. A high-quality classification mask has been used on each sample to analyze the automated vehicle parking parameters. Mask region-based convolutional neural networks (R-CNN) was taught using a small computational workload titled faster R-CNN that operates in five frames per second. In this paper, the rapidly-exploring random tree (RRT) method was used for routing the parking space and a nonlinear model predictive control (NMPC) controller was added to develop this system. We add the line detection algorithm commands to the mask R-CNN algorithm. The results can be useful to design a secure automatic parking system as well as a powerful perception system.

Expert System Design for Vacant Parking Space Location Using Automatic Learning and Artificial Vision Juan Manuel Carrera Garcia 2023 Finding a free parking space nowadays is a recurring problem in increasingly crowded pub- lic parking lots. The present study offers a solution that is based on the analysis of zenith images using artificial vision and is capable of automatically analyzing both the available spaces in the parking lot and their real-time occupancy. In an initial phase, the presented system semi-automatically detects the available parking spaces by filtering, thresholding, and carrying out a process of extracting the contour and approximating to a polygon the parking spaces of an empty parking lot. Once the size and location of the parking spaces have been mapped, the system is capable of detecting not only the presence of a vehicle in a parking space, but also the area of the parking space occupied by it with an accuracy of 98.21% using Region-based Convolutional Neural Networks. This feature allows the sys- tem to

specify the appropriate parking space for a new vehicle entering the parking lot based on its specific dimensions and the correct location of the cars parked in the spaces adjacent to the free space.

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