
Car Parking Indicator System Using Microcontroller

The Cloud in IoT-enabled Spaces
SMART PARKING IN FAST-GROWING CITIES
2020 3rd International Conference on Intelligent Sustainable Systems (ICISS)
Information Systems Design and Intelligent Applications
Proceedings of the 27th International Symposium on Advancement of Construction Management and Real Estate
Computational Intelligence in Urban Infrastructure
AI and IoT-Based Intelligent Automation in Robotics
Computer Vision and Image Processing
International Advanced Researches & Engineering Congress 2017 Proceeding Book
Blockchain Technology for Data Privacy Management
Recent Trends in Instrumentation and Control (RTIC-2024)
Wireless Sensor Networks
"2021 International Conference on Computer Communication and Informatics (ICCCI)".
Intelligent Systems Design and Applications
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Smart Cities
Advances in Computing Systems and Applications
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2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIoT)
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Light, Dark, and the Electromagnetic Spectrum
Wireless Sensor and Actuator Networks for Smart Cities
Advances in Interdisciplinary Engineering
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Data Driven Approach Towards Disruptive Technologies
Automated Car Parking Management System Using LabVIEW and IR Sensors
Applied Informatics for Industry 4.0

Sensor Technology: Concepts, Methodologies, Tools, and Applications
Fundamental and Applied Sciences in Asia

*Car Parking Indicator System Using
Microcontroller*

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CHAPMAN TURNER

The Cloud in IoT-enabled Spaces CRC Press

Applied Informatics for Industry 4.0 combines the technologies of computer science and information science to assist in the management and processing of data to provide different types of services. Due to the adaptation of 4.0 IR-related technologies, applied informatics is playing a vital role in different sectors such as healthcare, complex system design and privacy-related issues. This book focuses on cutting edge research from the fields of informatics and complex industrial systems, and will cover topics including health informatics, bioinformatics, brain informatics, genomics and proteomics, data and network security and more. The text will appeal to beginners and advanced researchers in the fields of computer science, information sciences, electrical and electronic engineering and robotics.

SMART PARKING IN FAST-GROWING CITIES Tellwell Talent

This book presents the proceedings of CRIOCM 2022 (27th International Conference on Advancement of Construction Management and Real Estate), sharing the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with The Chinese University of Hong Kong. Written by international academics and professionals, the book discusses the latest achievements, research findings, and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics, including spatial planning and land use innovation, integration and application of BIM and GIS, low-carbon built environment, post-pandemic resilient cities development, housing and social governance, real estate market and urban policy, real estate finance and economics, intelligent construction and smart city, built environment for healthy living, and construction management in the post-COVID-19 era, the discussions provide valuable insights into the implementation of advanced construction project

management and real estate market in China and abroad. The book offers an outstanding resource for academics and professionals

2020 3rd International Conference on Intelligent Sustainable Systems (ICISS) Springer Science & Business Media

This book is a printed edition of the Special Issue "Wireless Sensor and Actuator Networks for Smart Cities" that was published in JSAN

Information Systems Design and Intelligent Applications IGI Global
This invaluable text/reference investigates the state of the art in approaches to building, monitoring, managing, and governing smart cities. A particular focus is placed on the distributed computing environments within the infrastructure of such cities, including issues of device connectivity, communication, security, and interoperability. A selection of experts of international repute offer their perspectives on current trends and best practices, and their suggestions for future developments, together with case studies supporting the vision of smart cities based on the Internet of Things (IoT). Topics and features: examines the various methodologies relating to next-level urbanization, including approaches to security and privacy relating to social and legal aspects; describes a recursive and layered approach to modeling large-scale resource management systems for self-sustainable cities; proposes a novel architecture for hybrid vehicular wireless sensor networks, and a pricing mechanism for the management of natural resources; discusses the challenges and potential solutions to building smart city surveillance systems, applying knowledge-based governance, and adopting electric vehicles; covers topics on intelligent distributed systems, IoT, fog computing paradigms, big data management and analytics, and smart grids; reviews issues of sustainability in the design of smart cities and healthcare services, illustrated by case studies taken from cities in Japan, India, and Brazil. This illuminating volume offers a comprehensive reference for researchers investigating smart cities and the IoT, students interested in the distributed computing technologies used by smart living systems, and practitioners wishing to adopt the latest security and connectivity

techniques in smart city environments.

Proceedings of the 27th International Symposium on Advancement of Construction Management and Real Estate Springer Science & Business Media

The book aims to showcase the basics of both IoT and Blockchain for beginners as well as their integration and challenge discussions for existing practitioner. It aims to develop understanding of the role of blockchain in fostering security. The objective of this book is to initiate conversations among technologists, engineers, scientists, and clinicians to synergize their efforts in producing low-cost, high-performance, highly efficient, deployable IoT systems. It presents a stepwise discussion, exhaustive literature survey, rigorous experimental analysis and discussions to demonstrate the usage of blockchain technology for securing communications. The book evaluates, investigate, analyze and outline a set of security challenges that needs to be addressed in the near future. The book is designed to be the first reference choice at research and development centers, academic institutions, university libraries and any institutions interested in exploring blockchain. UG/PG students, PhD Scholars of this fields, industry technologists, young entrepreneurs and researchers working in the field of blockchain technology are the primary audience of this book.

Computational Intelligence in Urban Infrastructure CRC Press

The book gathers a collection of high-quality peer-reviewed research papers presented at the International Conference on Information System Design and Intelligent Applications (INDIA 2018), which was held at the Universite des Mascareignes, Mauritius from July 19 to 21, 2018. It covers a wide range of topics in computer science and information technology, from image processing, database applications and data mining, to grid and cloud computing, bioinformatics and many more. The intelligent tools discussed, e.g. swarm intelligence, artificial intelligence, evolutionary algorithms, and bio-inspired algorithms, are currently being applied to solve challenging problems in various domains.

AI and IoT-Based Intelligent Automation in Robotics CRC Press

Smart Cities and intelligence are among the most significant topics in IoT. Intelligence in communication and infrastructure implementation is at the heart of this concept, and its development is a key issue in smart cities. This book addresses the challenges in realizing intelligence in smart cities and sensing platforms in the era of cloud computing and IoT, varying from cost and energy efficiency to availability and service quality. It focuses on both the design and implementation aspects of artificial intelligence approaches in smart cities and sensing applications that are enabled and supported by IoT paradigms, and mainly on data delivery approaches and their performability aspects.

Computer Vision and Image Processing Allied Publishers

This book presents selected papers from the International Conference on Emerging Research in Computing, Information, Communication and Applications, ERCICA 2018. The conference provided an interdisciplinary forum for researchers, professional engineers and scientists, educators, and technologists to discuss, debate and promote research and technology in the emerging areas of computing, information, communication and their applications. The book discusses these research areas, providing a valuable resource for researchers and practicing engineers alike.

International Advanced Researches & Engineering Congress 2017 Proceeding Book CRC Press

Parking is a challenge for cities everywhere, but especially for cities in low- and middle-income countries. There, cities are experiencing rapid urbanization and increasing motorization, while investment capacity for parking infrastructure is limited, and despite the availability of free on-street parking, it is not used in an efficient and coordinated way. This book is meant to act as a resource for those managing urban parking challenges, particularly in low- and middle-income countries. This openAccess book can provide immediate guidance to city authorities, engineering firms, and urban planners worldwide and help develop data-driven solutions for smarter cities. The first part of this book portrays geospatial technologies in the context of urban mobility in smart cities. The second part focuses on implementing those technologies in parking management in low and middle-income countries.

Blockchain Technology for Data Privacy Management CRC Press
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.

Recent Trends in Instrumentation and Control (RTIC-2024)

Newnes

Collecting and processing data is a necessary aspect of living in a technologically advanced society. Whether it's monitoring events, controlling different variables, or using decision-making applications, it is important to have a system that is both inexpensive and capable of coping with high amounts of data. As the application of these networks becomes more common, it becomes imperative to evaluate their effectiveness as well as other opportunities for possible implementation in the future. *Sensor Technology: Concepts, Methodologies, Tools, and Applications* is a vital reference source that brings together new ways to process and monitor data and to put it to work in everything from intelligent transportation systems to healthcare to multimedia applications. It also provides inclusive coverage on the processing and applications of wireless communication,

sensor networks, and mobile computing. Highlighting a range of topics such as internet of things, signal processing hardware, and wireless sensor technologies, this multi-volume book is ideally designed for research and development engineers, IT specialists, developers, graduate students, academics, and researchers.

Wireless Sensor Networks Springer

This three-volume set (CCIS 1367-1368) constitutes the refereed proceedings of the 5th International Conference on Computer Vision and Image Processing, CVIP 2020, held in Prayagraj, India, in December 2020. Due to the COVID-19 pandemic the conference was partially held online. The 134 papers were carefully reviewed and selected from 352 submissions. The papers present recent research on such topics as biometrics, forensics, content protection, image enhancement/super-resolution/restoration, motion and tracking, image or video retrieval, image, image/video processing for autonomous vehicles, video scene understanding, human-computer interaction, document image analysis, face, iris, emotion, sign language and gesture recognition, 3D image/video processing, action and event detection/recognition, medical image and video analysis, vision-based human GAIT analysis, remote sensing, and more.

"2021 International Conference on Computer Communication and Informatics (ICCCI)". Dr. R. HALICIOGLU

This book covers recent trends in Electronics, Instrumentation and Control. It provides more insights into the latest developments, challenges and future directions in the field of Electronics and Instrumentation. This book entitled on Recent Trends in Instrumentation and control and it covers a variety of topics such as Recent advancements in biomedical instrumentation for medical diagnostics and patient monitoring system, advances in wireless communication technologies for data transmission and control in various industrial applications, integration of instrumentation systems with the Internet of Things (IoT) and various control strategies for industrial process.

Intelligent Systems Design and Applications MDPI

This book explores the intersection of blockchain technology, artificial intelligence (AI) and cyber physical systems (CPS). It discusses how these technologies can be integrated to create secure and efficient CPS solutions. The book covers various topics, including the basics of blockchain and AI, their applications

in CPS and the challenges of integrating these technologies. It also explores real-world examples of how blockchain and AI are used in CPS, such as smart cities, transportation systems and healthcare. The authors delve into the technical aspects of how blockchain and AI can be used together to enhance CPS security, data privacy and interoperability. They also discuss the potential benefits and limitations of these technologies and provide insights into the future of CPS. Overall, this book provides a comprehensive overview of the use of blockchain and AI in CPS, making it a valuable resource for researchers, professionals and students in the fields of computer science, engineering and cybersecurity.

Emerging Research in Computing, Information, Communication and Applications CRC Press

Since the dawn of time, electromagnetic energy has permeated through the universe, surrounding and interacting with everything it touches, illuminating, destroying and giving life. The colourful section of the electromagnetic spectrum we see in the form of visible light, rainbows and other phenomena is tiny when compared to its vast entirety. Using many parts of the electromagnetic spectrum have become common everyday occurrence for the majority of people on Earth, as it's been integrated into our lives in ways that we don't even think twice about it. This book illuminates many parts of the electromagnetic spectrum and its effects, the endless ways we have harnessed its energy, and how we interact and live with its influence. (less)

Smart Cities CRC Press

This book includes 46 scientific papers presented at the conference and reflecting the latest research in the fields of data mining, machine learning and decision-making. The international scientific conference "Intellectual Systems of Decision-Making and Problems of Computational Intelligence" was held in the Kherson region, Ukraine, from May 25 to 29, 2020. The papers are divided into three sections: "Analysis and Modeling of Complex Systems and Processes," "Theoretical and Applied Aspects of Decision-

Making Systems" and "Computational Intelligence and Inductive Modeling." The book will be of interest to scientists and developers specialized in the fields of data mining, machine learning and decision-making systems.

Advances in Computing Systems and Applications Springer

This book constitutes the refereed proceedings of the 6th European Conference on Wireless Sensor Networks, EWSN 2009, held in Cork, Ireland, in February 2009. The 23 revised full papers presented were carefully reviewed and selected from 145 submissions. The papers are organized in topical sections on performance and quality of service, routing, coordination and synchronisation, data collection, security, as well as evaluation and management.

Trends and Applications in Information Systems and Technologies

Springer Nature

Social network analysis applications have experienced tremendous advances within the last few years due in part to increasing trends towards users interacting with each other on the internet. Social networks are organized as graphs, and the data on social networks takes on the form of massive streams, which are mined for a variety of purposes. Social Network Data Analytics covers an important niche in the social network analytics field. This edited volume, contributed by prominent researchers in this field, presents a wide selection of topics on social network data mining such as Structural Properties of Social Networks, Algorithms for Structural Discovery of Social Networks and Content Analysis in Social Networks. This book is also unique in focussing on the data analytical aspects of social networks in the internet scenario, rather than the traditional sociology-driven emphasis prevalent in the existing books, which do not focus on the unique data-intensive characteristics of online social networks. Emphasis is placed on simplifying the content so that students and practitioners benefit from this book. This book targets advanced level students and researchers concentrating on computer science as a secondary text or reference book. Data

mining, database, information security, electronic commerce and machine learning professionals will find this book a valuable asset, as well as primary associations such as ACM, IEEE and Management Science.

2020 IEEE International Conference on Informatics, IoT, and Enabling Technologies (ICIOT) Springer Nature

The 24 chapters in this book provides a deep overview of robotics and the application of AI and IoT in robotics. It contains the exploration of AI and IoT based intelligent automation in robotics. The various algorithms and frameworks for robotics based on AI and IoT are presented, analyzed, and discussed. This book also provides insights on application of robotics in education, healthcare, defense and many other fields which utilize IoT and AI. It also introduces the idea of smart cities using robotics.

Applied Computer Sciences in Engineering Springer Nature

This book contains the proceedings of 5th International Conference on Advances in AI for Biomedical Instrumentation, Electronics and Computing (ICABEC - 2023), which provided an international forum for the exchange of ideas among researchers, students, academicians, and practitioners. It presents original research papers on subjects of AI, Biomedical, Communications & Computing Systems. Some interesting topics it covers are enhancing air quality prediction using machine learning, optimization of leakage power consumption using hybrid techniques, multi-robot path planning in complex industrial dynamic environment, enhancing prediction accuracy of earthquake using machine learning algorithms and advanced machine learning models for accurate cancer diagnostics. Containing work presented by a diverse range of researchers, this book will be of interest to students and researchers in the fields of Electronics and Communication Engineering, Computer Science Engineering, Information Technology, Electrical Engineering, Electronics and Instrumentation Engineering, Computer applications and all interdisciplinary streams of Engineering Sciences.