

# Android Based Smart Parking System Using Slot Allocation

With the increasing worldwide trend in population migration into urban centers, we are beginning to see the emergence of the kinds of mega-cities which were once the stuff of science fiction. It is clear to most urban planners and developers that accommodating the needs of the tens of millions of inhabitants of those megalopolises in an orderly and uninterrupted manner will require the seamless integration of and real-time monitoring and response services for public utilities and transportation systems. Part speculative look into the future of the world's urban centers, part technical blueprint, this visionary book helps lay the groundwork for the communication networks and services on which tomorrow's "smart cities" will run. Written by a uniquely well-qualified author team, this book provides detailed insights into the technical requirements for the wireless sensor and actuator networks required to make smart cities a reality.

This book presents high-quality research papers presented at the International Conference on Smart Computing and Cyber Security: Strategic Foresight, Security Challenges and Innovation (SMARTCYBER 2020) held during July 78, 2020, in the Department of Smart Computing, Kyungdong University, Global Campus, South Korea. The book includes selected works from academics and industrial experts in the field of computer science, information technology, and electronics and telecommunication. The content addresses challenges of cyber security. .

This book gathers high-quality papers presented at the 2nd International Conference on Communication, Devices & Computing (ICCDC 2019), held at Haldia Institute of Technology from March 14–15, 2019. The papers are divided

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into three main areas: communication technologies, electronics circuits & devices and computing. Written by students and researchers from around the world, they accurately reflect the global status quo.

This book discusses reliability applications for power systems, renewable energy and smart grids and highlights trends in reliable communication, fault-tolerant systems, VLSI system design and embedded systems. Further, it includes chapters on software reliability and other computer engineering and software management-related disciplines, and also examines areas such as big data analytics and ubiquitous computing. Outlining novel, innovative concepts in applied areas of reliability in electrical, electronics and computer engineering disciplines, it is a valuable resource for researchers and practitioners of reliability theory in circuit-based engineering domains.

With technically co sponsored by IEEE ComSoc(Communications Society), IEEE ComSoc CISTC(Communications & Information Security Technical Community), and IEEE ComSoc ONTC(Optical Networking Technical Community), the ICACT(International Conference on Advanced Communications Technology) Conference has been providing an open forum for scholars, researchers, and engineers to the extensive exchange of information on newly emerging technologies, standards, services, and applications in the area of the advanced communications technology The conference official language is English All the presented papers have been published in the Conference Proceedings, and posted on the ICACT Website and IEEE Xplore Digital Library since 2004 The honorable ICACT Out Standing Paper Award list has been posted on the IEEE Xplore Digital Library also, and all the Out Standing papers are subjected to the invited paper of the ICACT Transactions on the Advanced Communications Technology Journal issue by GIRI

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Internet of Things (IoT)-enabled spaces have made revolutionary advances in the utility grid. Among these advances, intelligent and energy-efficient services are gaining considerable interest. The use of the smart grid is increasing day after day around us and is not only used in saving energy but also in our daily life for intelligent health, traffic, and even farming systems. The grid enabled with IoT features is also expected to communicate with cellular networks smoothly in the next-generation networks (6G and beyond). This will open the door for other interesting research areas. In this book, we consider the most significant and emergent research topics in this domain, addressing major issues and challenges in IoT-based solutions proposed for the smart grid. The chapters provide insight on comprehensive topics in IoT-based smart grids, combining technical aspects with the most up-to-date theory. It investigates the grid under varying and potential emerging paradigms such as edge/fog computing, in addition to big data aspects considerations in the IoT era. With comprehensive surveys and case studies, this book explores basic and high-level grid aspects in the emerging smart city paradigm, which makes it especially attractive to researchers, academics, and higher-level students. This authored book can be used by computer science undergraduate and postgraduate students, researchers and practitioners, city administrators, policymakers, and government regulators. This book presents peer-reviewed contributions from the 5th International Conference on Mobile and Wireless Technology (ICMWT 2018), held June 25-27, 2018 in Hong Kong. This conference provided researchers and practitioners from both academia and industry with a platform to keep them abreast of cutting-edge developments in the field. The book includes papers on mobile and wireless networks and their applications, the increasingly important security issues relating to mobile and wireless systems, data management,

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as well as the latest developments in mobile software development, and multimedia and wireless communications. 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.

This book is a valuable resource for the increasing body of researchers and practitioners in the field of geospatial technologies. Written by leading researchers and experts it is designed in such a way that technical achievements and challenges of geospatial computing applications are followed by various applications developed for society. As such, they serve as a bridge between technologists and

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solution developers, which is critical in the context of developing countries. There have been significant advances in geospatial technologies in India in the last decade, including advances in spatial data infrastructures, geocomputation and spatial databases, and innovative applications in natural resource development. Ranging from LIDAR standards, to data integration using ontologies, and mobile computing, such progress enhances the utility of the technology for both urban and rural development. This book discusses these achievements and considers the way forward. 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.

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

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Evolutionary Computing and Mobile Sustainable Networks Proceedings of ICECMSN 2020 Springer Nature

The Cloud in IoT-enabled Spaces addresses major issues and challenges in IoT-based solutions proposed for the Cloud. It paves the way for IoT-enabled spaces in the next generation cloud computing paradigm and opens the door for further innovative ideas. Topics include Cloud-based optimization in the IoT era, scheduling and routing, medium access, data caching, secure access, uncertainty, home automation, machine learning in wearable devices, energy monitoring, and plant phenotyping in farming. Smart spaces are solutions where Internet of Things (IoT)-enabling technologies have been employed towards further advances in the lifestyle. It tightly integrates with the existing Cloud infrastructure to impact several fields in academia and industry. The Cloud in IoT-enabled Spaces provides an overview of the issues around smart spaces and proposes the most up-to-date alternatives and solutions. The objective is to pave the way for IoT-enabled spaces in the next-generation Cloud computing and open the door for further innovative ideas.

This handbook provides a glimpse of the research that is underway in smart cities, with an examination of the relevant issues. It describes software infrastructures for smart cities, the role of 5G and

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Internet of things in future smart cities scenarios, the use of clouds and sensor-based devices for monitoring and managing smart city facilities, a variety of issues in the emerging field of urban informatics, and various smart city applications. Handbook of Smart Cities includes fifteen chapters from renowned worldwide researchers working on various aspects of smart city scale cyber-physical systems. It is intended for researchers, developers of smart city technologies and advanced-level students in the fields of communication systems, computer science, and data science. This handbook is also designed for anyone wishing to find out more about the on-going research thrusts and deployment experiences in smart cities. It is meant to provide a snapshot of the state-of-the-art at the time of its writing in several software services and cyber infrastructures as pertinent to smart cities. This handbook presents application case studies in video surveillance, smart parking, and smart building management in the smart city context. Unique experiences in designing and implementing the applications or the issues involved in developing smart city level applications are described in these chapters. Integration of machine learning into several smart city application scenarios is also examined in some chapters of this handbook. This book presents the select proceedings of the International Conference on Automation, Signal

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Processing, Instrumentation and Control (i-CASIC) 2020. The book mainly focuses on emerging technologies in electrical systems, IoT-based instrumentation, advanced industrial automation, and advanced image and signal processing. It also includes studies on the analysis, design and implementation of instrumentation systems, and high-accuracy and energy-efficient controllers. The contents of this book will be useful for beginners, researchers as well as professionals interested in instrumentation and control, and other allied fields. This book constitutes the refereed post-conference proceedings of the International Conferences ICCASA and ICTCC 2018, held in November 2018 in Viet Tri City, Vietnam. The 20 revised full papers presented were carefully selected from 30 submissions. The papers of ICCASA cover a wide spectrum in the area of context-aware-systems. CAS is characterized by its self- facets such as self-organization, self-configuration, self-healing, self-optimization, self-protection used to dynamically control computing and networking functions. The papers of ICTCC cover formal methods for self-adaptive systems and discuss natural approaches and techniques for computation and communication. This book presents selected, high-quality research papers from the International Conference on Electronic Systems and Intelligent Computing (ESIC 2020), held at NIT Yupia, Arunachal Pradesh, India,

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on 2 – 4 March 2020. Discussing the latest challenges and solutions in the field of smart computing, cyber-physical systems and intelligent technologies, it includes papers based on original theoretical, practical and experimental simulations, developments, applications, measurements, and testing. The applications and solutions featured provide valuable reference material for future product development.

Debates about the future of urban development in many countries have been increasingly influenced by discussions of smart cities. Despite numerous examples of this "urban labelling" phenomenon, we know surprisingly little about so-called smart cities. This book provides a preliminary critical discussion of some of the more important aspects of smart cities. Its primary focus is on the experience of some designated smart cities, with a view to problematizing a range of elements that supposedly characterize this new urban form. It also questions some of the underlying assumptions and contradictions hidden within the concept.

Information and communication technology  
Human Development  
Food, Agriculture, Education,  
Entrepreneurship & Health  
Infrastructure  
Telecom and Rural Infra  
Energy and Environment  
Critical technologies and Strategic Industries

This book constitutes the proceedings of the Second EAI International Conference on Intelligent Transport

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Systems, INTSYS 2108, which was held in Guimarães, Portugal, in November 2018. The 11 revised full papers were selected from 16 submissions and are organized in four thematic sessions on parking and collaborative approaches, case studies and simulation, mobility and planning, and Future 5V.

A hands-on guide to building mobile applications, Professional Android Application Development features concise and compelling examples that show you how to quickly construct real-world mobile applications for Android phones. Fully up-to-date for version 1.0 of the Android software development kit, it covers all the essential features, and explores the advanced capabilities of Android (including GPS, accelerometers, and background Services) to help you construct increasingly complex, useful, and innovative mobile applications for Android phones. What this book includes An introduction to mobile development, Android, and how to get started. An in-depth look at Android applications and their life cycle, the application manifest, Intents, and using external resources. Details for creating complex and compelling user interfaces by using, extending, and creating your own layouts and Views and using Menus. A detailed look at data storage, retrieval, and sharing using preferences, files, databases, and Content Providers. Instructions for making the most of mobile portability by creating rich map-based

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applications as well as using location-based services and the geocoder. A look at the power of background Services, using threads, and a detailed look at Notifications. Coverage of Android's communication abilities including SMS, the telephony APIs, network management, and a guide to using Internet resources Details for using Android hardware, including media recording and playback, using the camera, accelerometers, and compass sensors. Advanced development topics including security, IPC, advanced 2D / 3D graphics techniques, and user–hardware interaction. Who this book is for This book is for anyone interested in creating applications for the Android mobile phone platform. It includes information that will be valuable whether you're an experienced mobile developer or making your first foray, via Android, into writing mobile applications. It will give the grounding and knowledge you need to write applications using the current SDK, along with the flexibility to quickly adapt to future enhancements.

The book provides insights from the 2nd International Conference on Communication, Computing and Networking organized by the Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh, India on March 29–30, 2018. The book includes contributions in which researchers, engineers, and academicians as well as industrial professionals from around the globe

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presented their research findings and development activities in the field of Computing Technologies, Wireless Networks, Information Security, Image Processing and Data Science. The book provides opportunities for the readers to explore the literature, identify gaps in the existing works and propose new ideas for research.

Communication and Power Engineering are the proceedings of the joint International conferences organized by IDES in the year 2016. The aim of these conference proceedings is to bringing together the researchers, scientists, engineers, and scholar students in all areas of Computer Science, Power Engineering, Electrical & Electronics and provides an international forum for the dissemination of original research results, new ideas and practical development experiences, focused on both theory and practices. The conference deals with the frontier topics in the Computer Science, Electrical and Electronics Engineering subjects. The Institute of Doctors Engineers and Scientists - IDES is formed to promote, and organize technical research Meetings, Conference, Discussions, Seminars, Workshops, Study tours, Industry visits; and to publish professional Journals, Magazines and Newsletters; and to carry on research and development on the above fields; and to research, design, and develop products or materials and projects. There are total 35 research papers included in this book covering all the frontier topics in Computer Science, Electrical and Electronics Engineering subjects. The authors of each chapter are researchers from various universities. Contents:

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Foreword  
Handwritten Script Identification from Text Lines  
A Rule based Approach for Noun Phrase Extraction from English Text Document  
Recommending Investors using Association Rule Mining for Crowd Funding Projects  
Colour Texture Classification Using Anisotropic Diffusion and Wavelet Transform  
Competitive Advantage of using Differential Evolution Algorithm for Software Effort Estimation  
Comparative Analysis of Cepstral analysis and Autocorrelation Method for Gender Classification  
A Simulative Study on Effects of Sensing Parameters on Cognitive Radio's Performance  
Analysis of Cyclotomic Fast Fourier Transform by Gate level Delay Method  
Dynamic Resource Allocation in Next Generation Networks using FARIMA Time Series Model  
Classification of Mimetite Spectral Signatures using Orthogonal Subspace Projection with Complex Wavelet Filter Bank based Dimensionality Reduction  
An Illumination Invariant Face Recognition Approach based on Fourier Spectrum  
Optimal Load Frequency Controller for a Deregulated Reheat Thermal Power System  
Design and Implementation of a Heuristic Approximation Algorithm for Multicast Routing in Optical Networks  
Infrastructure Management Services Toolkit  
A Novel Approach for Residential Society Maintenance Problem for Better Human Life  
Smart Suspect Vehicle Surveillance System  
Formal Performance Analysis of Web Servers using an SMT Solver and a Web Framework  
Modified GCC Compiler Pass for Thread-Level Speculation by Modifying the Window Size using Openmp  
Overview and Evaluation of an IoT Product for Application

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Development A TCP in CR-MANET with Unstable Bandwidth Impact of Digital Ecosystem on Business Environment A Two-Factor Single Use Password Scheme Design & Implementation of Wireless System for Cochlear Devices Software Code Clone Detection and Removal using Program Dependence Graphs Social Sentimental Analytics using Big Data Tools Predicting Flight Delay using ANN with Multi-core Map Reduce Framework New Network Overlay Solution for Complete Networking Virtualization Review upon Distributed Facts Hard Drive Schemes throughout Wireless Sensor Communities Detection of Rapid Eye Movement Behaviour Sleep Disorder using Time and Frequency Analysis of EEG Signal Applied on C4-A1 Channel Analysis of PV/ WIND/ FUEL CELL Hybrid System Interconnected With Electrical Utility Grid Analysis of Wind Speed Prediction Technique by hybrid Weibull-ANN Model An efficient FPGA Implementation of DES and Triple-DES Encryption Systems A Novelty Comparison of Power with Assorted Parameters of a Horizontal Wind Axis Turbine for NACA 5512 Retaliation based Enhanced Weighted Clustering Algorithm for Mobile Ad-hoc Network (R-EWCA) Chest CT Scans Screening of COPD based Fuzzy Rule Classifier Approach Author Index

This book focuses on the core areas of computing and their applications in the real world. Presenting papers from the Computing Conference 2020 covers a diverse range of research areas, describing various detailed techniques that have been developed and implemented. The Computing Conference 2020, which provided a

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venue for academic and industry practitioners to share new ideas and development experiences, attracted a total of 514 submissions from pioneering academic researchers, scientists, industrial engineers and students from around the globe. Following a double-blind, peer-review process, 160 papers (including 15 poster papers) were selected to be included in these proceedings.

Featuring state-of-the-art intelligent methods and techniques for solving real-world problems, the book is a valuable resource and will inspire further research and technological improvements in this important area.

This book features selected research papers presented at the International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2020), held at the Sir M. Visvesvaraya Institute of Technology on 20–21 February 2020. Discussing advances in evolutionary computing technologies, including swarm intelligence algorithms and other evolutionary algorithm paradigms which are emerging as widely accepted descriptors for mobile sustainable networks virtualization, optimization and automation, this book is a valuable resource for researchers in the field of evolutionary computing and mobile sustainable networks.

This is the proceedings of the International Conference On Computational Vision and Bio Inspired Computing (ICCVBIC 2017) held at RVS Technical Campus, September 21-22, 2017. It includes papers on state of the art innovations in bio-inspired computing applications, where new algorithms and results are produced and described. Additionally, this volume

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addresses evolutionary computation paradigms, artificial neural networks and biocomputing. It focuses mainly on research based on visual interference on the basis of biological images. Computation of data sources also plays a major role in routine day-to-day life for the purposes such as video transmission, wireless applications, fingerprint recognition and processing, big data intelligence, automation, human centric recognition systems. With the advantage of processing bio-inspired computations, a variety of computational paradigms can be processed. Finally, this book also treats the formation of neural networks by enabling local connectivity within it with the aid of vision sensing elements. The work also provides potential directions for future research.

This book provides solution for challenges facing engineers in urban environments looking towards smart development and IoT. The authors address the challenges faced in developing smart applications along with the solutions. Topics addressed include reliability, security and financial issues in relation to all the smart and sustainable development solutions discussed. The solutions they provide are affordable, resistive to threats, and provide high reliability. The book pertains to researchers, academics, professionals, and students.

Provides solutions to urban sustainable development problems facing engineers in developing and developed countries Discusses results with industrial problems and current issues in smart city development Includes solutions that are reliable, secure and financially sound

Introduction to Internet of Things: Basic Concept, challenges, security issues, applications and architecture

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will provide strong back ground knowledge about IoT and its application. The literature regarding IoT has been reviewed thoroughly and the concepts are presented. This book is about IoT and applications. Its objective is to present as clearly and completely as possible, the nature and characteristics of IoT devices. The book will help beginners and graduate students to gain their important concepts and ideas about IoT.

**DIGITAL CITIES ROADMAP** This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is an objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. The advent of Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights smart automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research community, to have a deep understanding and the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart city has also a focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and

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industry professionals interested in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities.

This book constitutes the proceedings of the First International Conference on Management Science and Engineering: Innovation and High-tech Services, ICMSE 2013, held in Macau, in June 2013. The papers are contributed by innovative researchers, engineers and practitioners in the field of management science, information system, finance, economics and accounting and offer a platform for exchanging the latest research findings in the field of management science and management innovation, for looking forward to the future trends in the management science and management innovation field in the 21st century, and to promote management modernization and high-tech innovation services.

The International Conference on ICT for Digital, Smart, and Sustainable Development (ICIDSSD'20) aims to provide an annual platform for the researchers, academicians, and professionals from across the world. ICIDSSD'20, held at Jamia Hamdard, New Delhi, India, is the second international conference of this series of conferences to be held annually. The conference majorly focuses on the recent developments in the areas relating to Information and Communication Technologies and contributing to Sustainable Development. ICIDSSD'20 has attracted research papers pertaining to an array of exciting research areas. The selected papers cover a wide range of topics including but not limited to Sustainable Development, Green Computing, Smart City, Artificial Intelligence, Big Data, Machine Learning, Cloud Computing, IoT, ANN, Cyber Security, and Data Science. Papers have primarily been judged on originality, presentation, relevance, and quality of work. Papers that clearly demonstrate results

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have been preferred. We thank our esteemed authors for having shown confidence in us and entrusting us with the publication of their research papers. The success of the conference would not have been possible without the submission of their quality research works. We thank the members of the International Scientific Advisory Committee, Technical Program Committee and members of all the other committees for their advice, guidance, and efforts. Also, we are grateful to our technical partners and sponsors, viz. HNF, EAI, ISTE, AICTE, IIC, CSI, IETE, Department of Higher Education, MHRD and DST for sponsorship and assistance. IoT is emerging as a popular area of research and has piqued the interest of academics and scholars across the world. This book serves as a textbook and a single point of reference for readers looking to delve further into this domain. Written by leading experts in the field, this lucid and comprehensive work provides a clear understanding of the operation and scope of the IoT. Along with the description of the basic outline and technologies associated with the subject, the book discusses the IoT case studies and hands-on exercises, enabling readers to visualise the vastly interdisciplinary nature of its applications. The book also serves curious, non-technical readers, enabling them to understand necessary concepts and terminologies associated with the IoT.

This book constitutes the proceedings of the International Conference on Internet of Things, ICIOT 2019, held as part of SCF 2019, in San Diego, CA, USA, in June 2019. The 8 full and 3 short papers presented in this volume were carefully reviewed and selected from 16 submissions. With the rapid advancements of mobile Internet, cloud computing and big data, device-centric traditional Internet of Things (IoT) is now moving into a new era which is termed as Internet of Things Services (IOTS). In this era, sensors and other types of sensing devices, wired and wireless networks, platforms and

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tools, data processing/visualization/analysis and integration engines, and other components of traditional IoT are interconnected through innovative services to realize the value of connected things, people, and virtual Internet spaces.

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