

IoT Notification

Arduino - Firebase - Android



Iot Push Notifications Arduino Firebase And Android

Lingsheng Yao



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VLSI, Microwave and Wireless Technologies Brijesh Mishra, Manish Tiwari, 2022-09-03 This book comprises the proceedings of the International Conference on VLSI Microwave and Wireless Technologies ICVMWT 2021. The book includes peer-reviewed papers on the core technological developments in emerging fields like wireless communication, RF, microwave, radar, VLSI, optical communication, etc. The book will serve as a valuable reference resource for academics and researchers across the globe.

Connected Vehicles in the Internet of Things Zaigham Mahmood, 2020-01-13 This book presents an overview of the latest smart transportation systems, IoV connectivity frameworks, issues of security and safety in VANETs, future developments in the IoV, technical solutions to address key challenges, and other related topics. A connected vehicle is a vehicle equipped with Internet access and wireless LAN, which allows the sharing of data through various devices inside as well as outside the vehicle. The ad hoc network of such vehicles is often referred to as VANET or the Internet of Vehicles (IoV). IoV is an application of IoT technology and may be regarded as an integration of three types of networks: inter-vehicle, intra-vehicle, and vehicular mobile networks. VANET involves several varieties of vehicle connectivity mechanisms, including vehicle-to-infrastructure (V2I), vehicle-to-vehicle (V2V), vehicle-to-cloud (V2C), and vehicle-to-everything (V2X). According to one survey, it is expected that there will be approximately 380 million connected cars on the roads by 2020. IoV is an important aspect of the new vision for smart transportation. The book is divided into three parts, examining the evolution of IoV, basic concepts, principles, technologies, and architectures, connectivity of vehicles in the IoT, protocols, frameworks, and methodologies, connected vehicle environments, and advanced topics in VANETs, security and safety issues, autonomous operations, machine learning, sensor technology, and AI. By providing scientific contributions and workable suggestions from researchers and practitioners in the areas of IoT, IoV, and security, this valuable reference aims to extend the body of existing knowledge.

Advances in Computing, Informatics, Networking and Cybersecurity Petros Nicopolitidis, Sudip Misra, Laurence T. Yang, Bernard Zeigler, Zhaolng Ning, 2022-03-03 This book presents new research contributions in the above-mentioned fields. Information and communication technologies (ICT) have an integral role in today's society. Four major driving pillars in the field are computing, which nowadays enables data processing in unprecedented speeds; informatics, which derives information stemming from processed data to feed relevant applications; networking, which interconnects the various computing infrastructures; and cybersecurity, for addressing the growing concern for secure and lawful use of the ICT infrastructure and services. Its intended readership covers senior undergraduate and graduate students in Computer Science and Engineering and Electrical Engineering, as well as researchers, scientists, engineers, ICT managers working in the relevant fields and industries.

Smart and Sustainable Solutions: Global Perspectives on Computer Science and Business Management Prof. (Dr.) Ajay Sharma, Mr. Kapil Saini, Dr. Neeraj Rana, Prof. (Dr.) Vivek Rastogi, Dr. Poonam, 2025-04-21

The Vertical Farm Kheir Al-Kodmany, Andrew Keong Ng, Abel Tablada, Chittaranjan Kole, 2024-10-25 Amid economic uncertainties, fluctuating oil

prices and a rising environmental consciousness the need for sustainable and efficient food production has become dire The Vertical Farm Scientific Advances and Technological Developments systematically navigates the realm of vertical farming VF rooted in a robust scientific foundation Unveiling the intricate convergence of plant biology environmental science and agronomy it provides a profound understanding of contemporary agriculture The book spans lighting systems and climate control mechanisms focusing on sustainability From small urban initiatives to significant commercial endeavors real world case studies showcase VF s adaptability scalability and resilience Addressing multiple challenges the book explores economic considerations and public perceptions recognizing their roles in fostering meaningful advancements in agricultural innovation A volume in the Nextgen Agriculture series this book is valuable to scientists practitioners and students in urban agriculture and planning horticulture engineering landscape architecture and plant technology sciences

Internet of Things: an Application Based Approach Using Arduino Platform and Firebase Sourav BHOI,2018-05-31 The main highlights of the book are presented as follows It is an application oriented quick guide for beginners It solves 7 real time problems ex Ultraviolet intensity monitoring by designing prototypes of it This is a unique feature of this book It is useful in Laboratory experiments It is designed using Arduino platform The data from the protoype designed is collected and firstly stored in local database computer using coolterm software and secondly the data is also stored in a server using Google firebase application IoT mainly focuses on data gathering and data analysis However this book only focuses on data gathering part The data analysis part is the future scope of this work The experiments are carried out using Windows OS platform NOTE The readers should know the basics of C programming Python programming and basics of Arduino

Hands-On Internet of Things with MQTT Tim Pulver,2019-10-04 Develop a variety of projects and connect them to microcontrollers and web servers using the lightweight messaging protocol MQTT Key Features Leverage the power of MQTT to build a pet food dispenser e ink to do list and a productivity cube Learn about technologies like laser cutting 3D printing and PCB production for building robust prototypes Explore practical uses cases to gain an in depth understanding of MQTT Book DescriptionMQ Telemetry Transport MQTT is a lightweight messaging protocol for smart devices that can be used to build exciting highly scalable Internet of Things IoT projects This book will get you started with a quick introduction to the concepts of IoT and MQTT and explain how the latter can help you build your own internet connected prototypes As you advance you ll gain insights into how microcontrollers communicate and you ll get to grips with the different messaging protocols and techniques involved Once you are well versed with the essential concepts you ll be able to put what you ve learned into practice by building three projects from scratch including an automatic pet food dispenser and a smart e ink to do display You ll also discover how to present your own prototypes professionally In addition to this you ll learn how to use technologies from third party web service providers along with other rapid prototyping technologies such as laser cutting 3D printing and PCB production By the end of this book you ll have gained hands on experience in using MQTT to build your own IoT prototypes What you will

learn Explore MQTT programming with Arduino Discover how to make your prototypes talk to each other Send MQTT messages from your smartphone to your prototypes Discover how you can make websites interact with your prototypes Learn about MQTT servers libraries and apps Explore tools such as laser cutting and 3D printing in order to build robust prototype cases Who this book is for If you are an IoT developer or enthusiast who wants to start building IoT prototypes using MQTT this book is for you Basic knowledge of programming with Arduino will be useful *IoT Projects with Bluetooth Low Energy* Madhur Bhargava,2017-08-28 Use the power of BLE to create exciting IoT applications About This Book Build hands on IoT projects using Bluetooth Low Energy and learn about Bluetooth 5 and its features Build a health tracking system and indoor navigation and warehouse weather monitoring projects using smart devices Build on a theoretical foundation and create a practice based understanding of Bluetooth Low Energy Who This Book Is For If you re an application developer a hardware enthusiast or just curious about the Internet of Things and how to convert it into hands on projects then this book is for you Having some knowledge of writing mobile applications will be advantageous What You Will Learn Learn about the architecture and IoT uses of BLE and in which domains it is being used the most Set up and learn about various development platforms Android iOS Firebase Raspberry Pi Beacons and GitHub Create an Explorer App Android iOS to diagnose a Fitness Tracker Design a Beacon with the Raspberry Pi and write an app to detect the Beacon Write a mobile app to periodically poll the BLE tracking sensor Compose an app to read data periodically from temperature and humidity sensors Explore more applications of BLE with IoT Design projects for both Android and iOS mobile platforms In Detail Bluetooth Low Energy or Bluetooth Smart is Wireless Personal Area networking aimed at smart devices and IoT applications BLE has been increasingly adopted by application developers and IoT enthusiasts to establish connections between smart devices This book initially covers all the required aspects of BLE before you start working on IoT projects In the initial stages of the book you will learn about the basic aspects of Bluetooth Low Energy such as discovering devices services and characteristics that will be helpful for advanced level projects This book will guide you through building hands on projects using BLE and IoT These projects include tracking health data using a mobile App and making this data available for health practitioners Indoor navigation creating beacons using the Raspberry Pi and warehouse weather Monitoring This book also covers aspects of Bluetooth 5 the latest release and its effect on each of these projects By the end of this book you will have hands on experience of using Bluetooth Low Energy to integrate with smart devices and IoT projects Style and approach A practical guide that will help you promote yourself into an expert by building and exploring practical applications of Bluetooth Low Energy *Practical IoT using Arduino and ESP32* Pravin Dhandre,2025-02-15 This handy book will get you up and running with Arduino and ESP32 in no time teaching you how to think design and build real world IoT applications You ll start by exploring the Uno and ESP32 boards identifying pins and powering sensors and LEDs Then you get the Arduino IDE up and running handle libraries and flags and learn how to write upload and debug sketches You ll be working on building some key

C skills like handling data types loops functions and classes and you ll be doing all of this without getting stuck Then you move on to sensors where you re reading digital and analog signals calibrating measurements scaling values and filtering noise You ll be driving I2C and SPI displays for clear visual feedback Next we ll dive into camera modules where you ll learn how to wire an OV7670 or ESP32 CAM capture and compress images save them to SPIFFS or SD and run basic image analysis There are wireless chapters that teach Wi Fi HTTPS with JSON MQTT messaging Bluetooth LE vs Classic and token based security Later on you ll find chapters about Cloud and low power stuff like JSON building AWS IoT Core connections live dashboards with WebSockets and Node RED Google Sheets logging and deep sleep with batched updates And the final projects really tie it all together a temperature monitor that notifies the cloud an OLED QR code generator an ethical Wi Fi jamming demo and an RTC alarm clock with mobile notifications All of our projects combine wiring code networking and power management so you ll gain real world IoT skills without claiming total mastery Key Learnings Use Uno and ESP32 pins for sensors power and communication Set up Arduino IDE boards libraries and compile flags effectively Use C to create efficient programs with loops functions and classes Also use non blocking timing Read calibrate and filter the sensor data to get accurate measurements Get clear visual feedback by driving I2C SPI displays with Adafruit GFX Capture and process images using OV7670 or ESP32 CAM modules Enable Wi Fi HTTPS MQTT and Bluetooth for secure IoT communication Combine AWS IoT and Node RED to create real time data dashboards Log to Google Sheets and extend your battery life with deep sleep Build projects like cloud alerts QR codes Wi Fi jamming and RTC alarms

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Handling WiFi Bluetooth Networking IoT Protocols Cloud Smart IoT Projects [IOT Based Simple and Efficient Projects Using Arduino, Raspberry Pi NAS Server, Node MCU ESP8266 and Cloud Platforms](#) Anbazhagan K,2019-08-22 This book is specially described about best IOT Projects with the simple explanation From this book you can get lots of information about the IOT and How the Projects are developed You can get an information about the free cloud services and effective way to apply in your projects you can get how to program and create a proper automation in IOT products Which is helpful for the starting stage people but they must know about internet of things You will know how to process the microchip controller and new software for working From this you can get lot of new ideas why are u waiting for and get it my friend we really proud to present this book for u Thank u

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