Arduino Based Home Security System Academic Science

This two-volume set of LNCS 11643 and LNCS 11644 constitutes - in conjunction with the volume LNAI 11645 - the refereed proceedings of the 15th International Conference on Intelligent Computing, ICIC 2019, held in Nanchang, China, in August 2019. The 217 full papers of the three proceedings volumes were carefully reviewed and selected from 609 submissions. The ICIC theme unifies the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications. The theme for this conference is “Advanced Intelligent Computing Methodologies and Applications.” Papers related to this theme are especially solicited, including theories, methodologies, and applications in science and technology.

This book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2020) held at the University of Engineering & Management, Kolkata, India, during July 2020. The book is organized in three volumes and includes high-quality research work by academicians and industrial experts in the field of computing and
communication, including full-length papers, research-in-progress papers and case studies related to all the areas of data mining, machine learning, Internet of things (IoT) and information security.


This book presents the refereed proceedings of the 5th International Conference on Advanced Machine Learning Technologies and Applications (AMLTA 2020), held at Manipal University Jaipur, India, on February 13 – 15, 2019, and organized in collaboration with the Scientific Research Group in Egypt (SRGE). The papers cover current research in machine learning, big data, Internet of Things,
biomedical engineering, fuzzy logic and security, as well as intelligence swarms and optimization. To continue providing people with safe, comfortable, and affordable places to live, cities must incorporate techniques and technologies to bring them into the future. The integration of big data and interconnected technology, along with the increasing population, will lead to the necessary creation of smart cities. Big Data Analytics for Smart and Connected Cities is a pivotal reference source that provides vital research on the application of the integration of interconnected technologies and big data analytics into the creation of smart cities. While highlighting topics such as energy conservation, public transit planning, and performance measurement, this publication explores technology integration in urban environments as well as the methods of planning cities to implement these new technologies. This book is ideally designed for engineers, professionals, researchers, and technology developers seeking current research on technology implementation in urban settings. One-volume coverage of all the core concepts, terminology, issues, and practical skills modern computer security professionals need to know * *The most up-to-date computer security concepts text on the market. *Strong coverage and comprehensive analysis of key attacks, including denial of service, malware, and viruses. *Covers oft-neglected subject
areas such as cyberterrorism, computer fraud, and industrial espionage. *Contains end-of-chapter exercises, projects, review questions, and plenty of realworld tips. Computer Security Fundamentals, Second Edition is designed to be the ideal one volume gateway into the entire field of computer security. It brings together thoroughly updated coverage of all basic concepts, terminology, and issues, along with the practical skills essential to security. Drawing on his extensive experience as both an IT professional and instructor, Chuck Easttom thoroughly covers core topics such as vulnerability assessment, virus attacks, buffer overflow, hacking, spyware, network defense, firewalls, VPNs, Intrusion Detection Systems, and passwords. Unlike many other authors, however, he also fully addresses more specialized issues, including cyber terrorism, industrial espionage and encryption - including public/private key systems, digital signatures, and certificates. This edition has been extensively updated to address the latest issues and technologies, including cyberbullying/cyberstalking, session hijacking, steganography, and more. Its examples have been updated to reflect the current state-of-the-art in both attacks and defense. End-of-chapter exercises, projects, and review questions guide readers in applying the knowledge they've gained, and Easttom offers many tips that readers would otherwise have
to discover through hard experience. This book covers recent trends in the field of devices, wireless communication and networking. It gathers selected papers presented at the International Conference on Communication, Devices and Networking (ICCDN 2019), which was organized by the Department of Electronics and Communication Engineering, Sikkim Manipal Institute of Technology, Sikkim, India, on 9–10 December 2019. Gathering cutting-edge research papers prepared by researchers, engineers and industry professionals, it will help young and experienced scientists and developers alike to explore new perspectives, and offer them inspirations on how to address real-world problems in the areas of electronics, communication, devices and networking.

The book is a collection of high-quality peer-reviewed research papers presented in the International Conference on Artificial Intelligence and Evolutionary Computations in Engineering Systems (ICAIECES 2017). The book discusses wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry have presented their original work and ideas, information, techniques and applications in the field of communication, computing and power technologies. There are a lot of e-business security concerns. Knowing
about e-business security issues will likely help overcome them. Keep in mind, companies that have control over their e-business are likely to prosper most. In other words, setting up and maintaining a secure e-business is essential and important to business growth. This book covers state-of-the-art practices in e-business security, including privacy, trust, security of transactions, big data, cloud computing, social network, and distributed systems. The book aims to integrate the aspects of IoT, Cloud computing and data analytics from diversified perspectives. The book also plans to discuss the recent research trends and advanced topics in the field which will be of interest to academicians and researchers working in this area. Thus, the book intends to help its readers to understand and explore the spectrum of applications of IoT, cloud computing and data analytics. Here, it is also worth mentioning that the book is believed to draw attention on the applications of said technology in various disciplines in order to obtain enhanced understanding of the readers. Also, this book focuses on the researches and challenges in the domain of IoT, Cloud computing and Data analytics from perspectives of various stakeholders. Security concerns around the rapid growth and variety of devices that are controlled and managed over the Internet is an immediate potential threat to all who own or use them. This book examines the issues surrounding these problems, vulnerabilities, what can be done to solve the problems, investigating the roots of the problems and how programming and attention to good
security practice can combat the threats today that are a result of lax security processes on the Internet of Things, cloud computing and social media.

In Beginning Arduino, you will learn all about the popular Arduino microcontroller by working your way through an amazing set of 50 cool projects. You’ll progress from a complete beginner regarding Arduino programming and electronics knowledge to intermediate skills and the confidence to create your own amazing Arduino projects. Absolutely no experience in programming or electronics required! Rather than requiring you to wade through pages of theory before you start making things, this book has a hands-on approach. You will dive into making projects right from the start, learning how to use various electronic components and how to program the Arduino to control or communicate with those components. Each project is designed to build upon the knowledge learned in earlier projects and to further your knowledge in programming as well as skills with electronics. By the end of the book you will be able create your own projects confidently and with creativity. Please note: the print version of this title is black & white; the eBook is full color. You can download the color diagrams in the book from http://www.apress.com/9781430232407

Green Information and Communication Systems for a Sustainable Future covers the fundamental concepts, applications, algorithms, protocols, new trends, challenges, and research results in the area of Green Information and Communication Systems. This book provides the reader with up-to-date information on core and specialized issues, making it highly suitable for both
The novice and the experienced researcher in the field. The book covers theoretical and practical perspectives on network design. It includes how green ICT initiatives and applications can play a major role in reducing CO2 emissions, and focuses on industry and how it can promote awareness and implementation of Green ICT. The book discusses scholarship and research in green and sustainable IT for business and organizations and uses the power of IT to usher sustainability into other parts of an organization. Business and management educators, management researchers, doctoral scholars, university teaching personnel and policy makers as well as members of higher academic research organizations will all discover this book to be an indispensable guide to Green Information and Communication Systems. It will also serve as a key resource for Industrial and Management training organizations all over the world.

Design, build and maintain a home security system with Arduino Uno

About This Book
- Learn what a security system is, how it works and create one for yourself
- Develop a security system by setting up security cameras and motion detector systems
- Manage and analyze all the data collected by the sensors from the security system, using a graphical application

Who This Book Is For
This book is for novice programmers and hobbyists who want to understand how Arduino can be used to program a home security system as well as to those who want to delve deeper into the world of Arduino.

What You Will Learn
- Run cables and electricity to support home security infrastructure
- Connect Arduino to your programming environment
- Learn to
interact with output devices – alarms, locks, shutters
Understand different parts of electronics circuit (MOSFET, resistor, capacitor)
Integrate home monitoring and security notifications with monitoring systems
Use logical level shifter with Arduino to send and receive data to and from Raspberry Pi

Detail
Arduino is an open source micro-controller built on a single circuit board that is capable of receiving sensory input from the environment and controlling interactive physical objects. It is also a development environment that allows the writing of software to the board, and is programmed in the Arduino programming language. It is used for a variety of different purposes and projects, from simple projects such as building a thermostat, to more advanced ones such as robotics, web servers, seismographs, home security systems and synthesizers. This book will demonstrate how the Arduino can be used to develop a highly connected home security system by mobilizing a network of sensors which can feed alerts back to an Arduino when alarms are triggered. You will know the current state of security systems, well supported by the designs that fit best for your environment. Also, we will see some current technologies such as NFC, Wi-Fi and Bluetooth, and will finally create a complete web interface that will allow us to remotely manage our system, and even send daily bulletins with the summary of activity. Towards the end, we'll develop a wireless home security system by setting up security cameras and motion detectors (door and gate trips, temperature sensors). We will then set up a centralized remote access hub (powered by the Arduino)
that allows sensors to connect to the wireless home network that can be viewed and interacted by the user.

**Style and approach**
A step-by-step guide with numerous examples focusing on providing the practical skills required to build home security applications using Arduino.

This volume presents select papers presented during the International Conference on Photonics, Communication and Signal Processing Technologies held in Bangalore from July 18th to 20th, 2018. The research papers highlight analytical formulation, solution, simulation, algorithm development, experimental research, and experimental investigations in the broad domains of photonics, signal processing and communication technologies. This volume will be of interest to researchers working in the field.

The book features research papers presented at the International Conference on Emerging Technologies in Data Mining and Information Security (IEMIS 2018) held at the University of Engineering & Management, Kolkata, India, on February 23–25, 2018. It comprises high-quality research by academics and industrial experts in the field of computing and communication, including full-length papers, research-in-progress papers, case studies related to all the areas of data mining, machine learning, IoT and information security.

### Home Security Systems DIY Using Android and Arduino

This book features high-quality research papers presented at the International Conference on
Applications and Techniques in Cyber Security and Digital Forensics (ICCSDF 2021), held at The NorthCap University, Gurugram, Haryana, India, during April 3–4, 2021. This book discusses the topics ranging from information security to cryptography, mobile application attacks to digital forensics, and from cyber security to blockchain. The goal of the book is to provide 360-degree view of cybersecurity to the readers which include cyber security issues, threats, vulnerabilities, novel idea, latest technique and technology, and mitigation of threats and attacks along with demonstration of practical applications. This book also highlights the latest development, challenges, methodologies as well as other emerging areas in this field. It brings current understanding of common Web vulnerabilities while maintaining awareness and knowledge of contemporary standards, practices, procedures, and methods of Open Web Application Security Project. It also expounds how to recover information after a cybercrime.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Design and build custom devices that work through your phone to control your home remotely. Setting up a “smart home” can be costly, intimidating, and invasive. This hands-on guide presents you with an accessible and
cheap way to do it yourself using free software that will enable your home and your mobile devices to communicate. A DIY ‘Smart Home’ Guide: Tools for Automating Your Home Monitoring and Security Using Arduino, ESP8266, and Android contains step-by-step plans for easy-to-build projects that work through your phone to control your home environment remotely. All the projects in the book are geared towards helping you create a “smart home,” with fun and useful examples such as wireless temperature and humidity monitors, automated lights, sensors that can trigger alarms in the event of broken glass, fire, window entry, or water heater leakage, and much more! All projects can be accomplished with no previous knowledge; for those with some background in C/C++ or JAVA, the projects can be customized. • All projects use easy, free, flexible, open-source platforms such as Arduino • Focuses projects on real-world remote control activations for protecting the home • Written by a “smart home” expert and experienced author

This book shows you how to build your own wireless home security system using an Android cell phone or tablet, an Arduino microcontroller, an infrared motion detector, a Bluetooth adapter, and an optional ArduCAM Mini digital camera. All these items are low cost off the shelf parts that are widely available for purchase. This book shows you how to build your own home intruder alarm system that allows you to
detect the motion of an intruder and then call out to an emergency phone number using an Android cell phone or just alert you to the intruder with an Android tablet. In addition, an ArduCAM Mini digital camera can be added so that pictures of the intruder can be taken when the motion detector is tripped. You can also use the book's ArduCAM Mini camera based security system for continuous surveillance of your property. The image data is stored locally on the Android device and does NOT require payment of storage fees as with some home security company plans. This book will also go into the technical details of the hardware set up as well as the author created Android and Arduino software. With these technical details you will be able to customize and expand these systems to suit your specific needs. Who is this book for? 1. This book is designed for everyone from people with no technical experience to experienced Do It Yourselfers such as those experienced in home improvements as well as programmers and engineers who want to customize and expand on the basic home security systems presented. Key Feature Summary: * Shows you how to build your own wireless home security and surveillance system and stop paying monthly fees to home security companies. * Shows you how to build your own wireless home security and surveillance system and stop worrying about being spied on by commercial security companies. * Expands upon the
trend of "Do It Yourself" or "DIY" wireless home security systems such as the best selling self installable SimpliSafe wireless home security system. * Follow the detailed "Hands on Examples" and install the pre-made software created by the author on your Android and Arduino devices and get a working video surveillance system, or an intruder alarm system up and running within 15 minutes. * Shows you how to build your own wireless home security system that can detect intruders and make an emergency cell phone call to notify you of the intrusion. * Explains the author created source code for the Android and Arduino so you can customize the home security systems yourself. Table of Contents: Chapter 1: Introducing the Arduino Chapter 2: Arduino Programming Language Basics Chapter 3: The Android Controller and Bluetooth Communication with Arduino Chapter 4: Simple Wireless Intruder Alarm System with Motion Detector Chapter 5: Hands on Example: Creating a Simple Intruder Alarm System Chapter 6: ArduCAM Mini Wireless Intruder Alarm/Video Surveillance System Chapter 7: Hands on Example: Building an ArduCAM Intruder Alarm / Surveillance System Chapter 8: Deploying your Wireless Intruder Alarm and Surveillance System This book constitutes the refereed proceedings of the Second EAI International Conference on Smart Grid and Internet of Things, SGIoT 2018, held in
Niagara Falls, Canada, Ontario, in July 2018. The 14 papers presented were carefully reviewed and selected from 25 submissions and present research results on how to achieve more efficient use of resources based largely on IoT-based machine-to-machine interactions in the smart grid communication networks. The smart grid also encompasses IoT technologies, which monitor transmission lines, manage substations, integrate renewable energy generation (e.g., solar or wind), and utilize hybrid vehicle batteries. Through these technologies, the authorities can smartly identify outage problems, and intelligently schedule the power generation and delivery to the customers.

This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2019), held at the University of Liberal Arts Bangladesh (ULAB), Dhaka, on 25–26 October 2019 and jointly organized by the University of Liberal Arts Bangladesh (ULAB), Bangladesh; Jahangirnagar University (JU), Bangladesh; and South Asian University (SAU), India. These proceedings present novel contributions in the areas of computational intelligence, and offer valuable reference material for advanced research. The topics covered include collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal...
This book investigates how we as citizens of Society 5.0 borrow the disruptive technologies like Blockchain, IoT, cloud and software-defined networking from Industry 4.0, with its automation and digitization of manufacturing verticals, to change the way we think and act in cyberspace incorporated within everyday life. The technologies are explored in Non-IT sectors, their implementation challenges put on the table, and new directions of thought flagged off. Disruptive Technologies for Society 5.0: Exploration of New Ideas, Techniques, and Tools is a pathbreaking book on current research, with case studies to comprehend their importance, in technologies that disrupt the de facto. This book is intended for researchers and academicians and will enable them to explore new ideas, techniques, and tools.

This book includes selected peer-reviewed papers presented at the International Conference on Modeling, Simulation and Optimization, organized by National Institute of Technology, Silchar, Assam, India, during 3–5 August 2020. The book covers topics of modeling, simulation and optimization, including computational modeling and simulation, system modeling and simulation, device/VLSI modeling and simulation, control theory and applications, modeling and simulation of energy system and optimization. The book disseminates
various models of diverse systems and includes solutions of emerging challenges of diverse scientific fields.
This book presents chapters from diverse range of authors on different aspects of how Blockchain and IoT are converging and the impacts of these developments. The book provides an extensive cross-sectional and multi-disciplinary look into this trend and how it affects artificial intelligence, cyber-physical systems, and robotics with a look at applications in aerospace, agriculture, automotive, critical infrastructures, healthcare, manufacturing, retail, smart transport systems, smart cities, and smart healthcare. Cases include the impact of Blockchain for IoT Security; decentralized access control systems in IoT; Blockchain architecture for scalable access management in IoT; smart and sustainable IoT applications incorporating Blockchain, and more. The book presents contributions from international academics, researchers, and practitioners from diverse perspectives. Presents how Blockchain and IoT are converging and the impacts of these developments on technology and its application; Discusses IoT and Blockchain from cross-sectional and multi-disciplinary perspectives; Includes contributions from researchers, academics, and professionals from around the world.

ICT technologies have contributed to the advances
in wireless systems, which provide seamless connectivity for worldwide communication. The growth of interconnected devices and the need to store, manage, and process the data from them has led to increased research on the intersection of the internet of things and cloud computing. The Handbook of Research on the IoT, Cloud Computing, and Wireless Network Optimization is a pivotal reference source that provides the latest research findings and solutions for the design and augmentation of wireless systems and cloud computing. The content within this publication examines data mining, machine learning, and software engineering, and is designed for IT specialists, software engineers, researchers, academicians, industry professionals, and students. Presents instructions for creating and enhancing a variety of household electronic equipment, including a networked thermostat, LED lanterns, and a yakitori grill.

Arduino Project Handbook is a beginner-friendly collection of electronics projects using the low-cost Arduino board. With just a handful of components, an Arduino, and a computer, you’ll learn to build and program everything from light shows to arcade games to an ultrasonic security system. First you’ll get set up with an introduction to the Arduino and valuable advice on tools and components. Then you can work through the book in order or just jump to
projects that catch your eye. Each project includes simple instructions, colorful photos and circuit diagrams, and all necessary code. Arduino Project Handbook is a fast and fun way to get started with microcontrollers that’s perfect for beginners, hobbyists, parents, and educators. Uses the Arduino Uno board.

This book features selected papers presented at Third International Conference on Nanoelectronics, Circuits and Communication Systems (NCCS 2017). Covering topics such as MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, Internet of Things, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems, and sensor network applications in mines, it is a valuable resource for young scholars, researchers, and academics.

This book shows you how to build and modify your own wifi camera based commercial quality portable wireless security, surveillance, and spy system appropriate for use at home, or during travel. This system uses only an Android cell phone or tablet (operating system 2.2 and above), a TI CC3200 Launchpad or ArduCAM CC3200 UNO, and a TI Camera Booster Pack with MT9D111 digital
camera or just an ArduCAM MT9D111 digital camera if you are using an ArduCAM CC3200 Uno which has a built in camera interface. This book shows you how to build and modify your own alarm system that detects the motion of an intruder, calls out to an emergency phone number and sends emergency text messages using an Android cell phone or just alerts you to the intruder using an Android tablet. This alarm system is compact enough to also provide portable security for travelers using hotels and motels or you can use this as a hidden spy camera system. You can also use the security system for high quality continuous real time surveillance of your property. The live video feed is shown on the Android device. The camera can be set to only record pictures where there is movement so you can easily view any saved images to determine what kind of intruder was detected. The image data is stored locally on the Android device and does NOT require payment of storage fees as with some home security company plans. This book will also go into the technical details of the hardware set up as well as the author created Android and TI CC3200 SimpleLink software. With these technical details you will be able to customize and expand these systems to suit your specific needs for your own personal use. This book also serves as a quick start guide for people interested in learning how to program wifi communication between an Android
and a TI CC3200 Simplelink device. Who is this book for? This book for people that: * Want a quick start guide to wifi communication between an Android device and a TI CC3200 Simplelink device using a camera. * Travel often and need a low cost, no contract, portable security solution when living in motels and hotels. * Want to secretly monitor a wife, husband, girlfriend, boyfriend, employee, co-worker and/or other people or even animals without their knowledge and have real time notifications sent to your cell phone. Key Feature Summary: * Shows you how to build and modify your own portable wifi camera based commercial quality wireless home or portable security, surveillance, and spy system with real time emergency notification phone call out and text message notifications to your main cell phone. * The home security system presented in this book is easy to assemble and does not require the use of breadboards or soldering. * Follow the detailed "Hands on Example" and install the pre-made software created by the author on your Android and TI CC3200 SimpleLink devices and get a working commercial quality video surveillance system, or an intruder alarm system up and running quickly * This book explains the author created source code for the Android and TI CC3200 SimpleLink devices so you can customize the home security system yourself for your own specific needs for personal use. Table of Contents: Chapter 1: Introducing the ArduCAM

This book constitutes the refereed proceedings of the 14th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2017, held in Prague, Czech Republic, in August 2017. The 23 full papers together with 4 short papers presented in this volume were carefully reviewed and selected from 77 submissions. The call for papers of the MobiWis 2017 included new and emerging areas such as: mobile web systems, recommender systems, security and authentication, context-awareness, mobile web and advanced applications, cloud and IoT, mobility management, mobile and wireless networks, and mobile web practice and experience.

The book is a collection of best selected research papers presented at 6th International Conference on Innovations in Electronics and Communication Engineering at Guru Nanak Institutions Hyderabad,
India. The book presents works from researchers, technocrats and experts about latest technologies in electronic and communication engineering. The book covers various streams of communication engineering like signal processing, VLSI design, embedded systems, wireless communications, and electronics and communications in general. The authors have discussed the latest cutting edge technology and the volume will serve as a reference for young researchers.

This book is divided into projects that are explained in a step-by-step format, with practical instructions that are easy to follow. If you want to build your own home automation systems wirelessly using the Arduino platform, this is the book for you. You will need to have some basic experience in Arduino and general programming languages, such as C and C++ to understand the projects in this book.

Big Data Analytics and Intelligence is essential reading for researchers and experts working in the fields of health care, data science, analytics, the internet of things, and information retrieval. Throughout human history, technological advancements have been made for the ease of human labor. With our most recent advancements, it has been the work of scholars to discover ways for machines to take over a large part of this labor and reduce human intervention. These advancements may become essential processes to nearly every
industry. It is essential to be knowledgeable about automation so that it may be applied. Research Anthology on Cross-Disciplinary Designs and Applications of Automation is a comprehensive resource on the emerging designs and application of automation. This collection features a number of authors spanning multiple disciplines such as home automation, healthcare automation, government automation, and more. Covering topics such as human-machine interaction, trust calibration, and sensors, this research anthology is an excellent resource for technologists, IT specialists, computer engineers, systems and software engineers, manufacturers, engineers, government officials, professors, students, healthcare administration, managers, CEOs, researchers, and academicians. This new volume provides an informative collection of chapters on ICT and data analytics in education, helping to lead the digital revolution in higher education. The chapters emphasize skill development through ICT, artificial intelligence in education, policies for integrating ICT in higher education, and more. The book focuses mainly on technological advancements in ICT in education, the perceived role of ICT in the teaching-learning transaction, pedagogy for teaching-learning in the 21st century, student-centered learning based on ICT, learning analytics, online technologies learning, tools for technology enhanced learning, distance
education and learning, the effective use of ICT in management education, experiences in ICT for technology-enhanced learning, influence of ICT in research development in higher education, role of teachers in direct classroom teaching in web-based education system, and role of ICT in innovation capacity building. The case studies help to illustrate the ideas and concepts discussed in the chapters. Arduino is an open-source electronics platform based on easy-to-use hardware and software while LabVIEW is a graphical programming telling how to connect functions and work with a variety of datatypes when constructing applications. This book will help beginners to get started with Arduino-based embedded systems including essential know-how of the programming and interfacing of the devices. Book includes programming and simulation of Arduino-based projects and interfacing with LabVIEW, based on practical case studies. The book comprises of total twenty five chapters with description, working model of LabVIEW and programming with Arduino IDE. This book focuses on the emerging advances in distributed communication systems, big data, intelligent computing and Internet of Things, presenting state-of-the-art research in frameworks, algorithms, methodologies, techniques and applications associated with data engineering and wireless distributed communication technologies.
addition, it discusses potential topics like performance analysis, wireless communication networks, data security and privacy, human computer interaction, 5G Networks, and smart automated systems, which will provide insights for the evolving data communication technologies. In a nutshell, this proceedings book compiles novel and high-quality research that offers innovative solutions for communications in IoT networks.

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