

Password Based Door Lock System Using 8051 Microcontroller

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This book addresses various aspects of how smart healthcare can be used to detect and analyze diseases, the underlying methodologies, and related security concerns. Healthcare is a multidisciplinary field that involves a range of factors like the financial system, social factors, health technologies, and organizational structures that affect the healthcare provided to individuals, families, institutions, organizations, and populations. The goals of healthcare services include patient safety, timeliness, effectiveness, efficiency, and equity. Smart healthcare consists of m-health, e-health, electronic resource management, smart and intelligent home services, and medical devices. The Internet of Things (IoT) is a system comprising real-world things that interact and communicate with each other via networking technologies. The wide range of potential applications of IoT includes healthcare services. IoT-enabled healthcare technologies are suitable for remote health monitoring, including rehabilitation, assisted ambient living, etc. In turn, healthcare analytics can be applied to the data gathered from different areas to improve healthcare at minimum expense.

This book offers a collection of high-quality, peer-reviewed research papers presented at the International Conference on Intelligent Computing, Communication and Devices (ICCD 2017), discussing all dimensions of intelligent sciences – intelligent computing, intelligent communication, and intelligent devices. Intelligent computing addresses areas such as intelligent and distributed computing, intelligent grid and cloud computing, internet of things, soft computing and engineering applications, data mining and knowledge discovery, semantic and web technology, hybrid systems, agent computing, bioinformatics, and recommendation systems. Intelligent communication is concerned with communication and network technologies, such as mobile broadband and all optical networks that are the key to groundbreaking inventions of intelligent communication technologies. It includes communication hardware, software and

networked intelligence, mobile technologies, machine-to-machine communication networks, speech and natural language processing, routing techniques and network analytics, wireless ad hoc and sensor networks, communications and information security, signal, image and video processing, network management, and traffic engineering. Lastly, intelligent devices are any equipment, instruments, or machines that have their own computing capability. As computing technology becomes more advanced and less expensive, it can be incorporated an increasing number of devices of all kinds. This area covers such as embedded systems, radiofrequency identification (RFID), radiofrequency microelectromechanical system (RF MEMS), very-large-scale integration (VLSI) design and electronic devices, analog and mixed-signal integrated circuit (IC) design and testing, microelectromechanical system (MEMS) and microsystems, solar cells and photonics, nanodevices, single electron and spintronics devices, space electronics, and intelligent robotics.

The two volume set CCIS 1030 and 1031 constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2018, held in Kalyani, India, in July 2018. The 76 revised full papers presented in the two volumes were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on computational intelligence; signal processing and communications; microelectronics, sensors, and intelligent networks; data science & advanced data analytics; intelligent data mining & data warehousing; and computational forensics (privacy and security).

This book constitutes the refereed proceedings of the Second International Conference on Intelligent Technologies and Applications, INTAP 2019, held in Bahawalpur, Pakistan, in November 2019. The 60 revised full papers and 6 revised short papers presented were carefully reviewed and selected from 224 submissions. Additionally, the volume presents 1 invited paper. The papers of this volume are organized in topical sections on AI and health; sentiment analysis; intelligent applications; social media analytics; business intelligence; Natural Language Processing; information extraction; machine learning; smart systems; semantic web; decision support systems; image analysis; automated software engineering.

This proceedings book presents the latest research findings, and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing, intelligent systems and Internet computing. The Web has become an important source of information, and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications. Data mining and knowledge discovery play a key role in many of today's major Web applications, such as e-commerce and computer security. Moreover, Web services provide a new platform for enabling service-oriented systems. The emergence of large-scale distributed computing paradigms, such as cloud computing and mobile

computing systems, has opened many opportunities for collaboration services, which are at the core of any information system. Artificial intelligence (AI) is an area of computer science that builds intelligent systems and algorithms that work and react like humans. AI techniques and computational intelligence are powerful tools for learning, adaptation, reasoning and planning, and they have the potential to become enabling technologies for future intelligent networks. Research in the field of intelligent systems, robotics, neuroscience, artificial intelligence and cognitive sciences is vital for the future development and innovation of Web and Internet applications.

This book contains selected papers from the 7th International Conference on Information Science and Applications (ICISA 2016) and provides a snapshot of the latest issues encountered in technical convergence and convergences of security technology. It explores how information science is core to most current research, industrial and commercial activities and consists of contributions covering topics including Ubiquitous Computing, Networks and Information Systems, Multimedia and Visualization, Middleware and Operating Systems, Security and Privacy, Data Mining and Artificial Intelligence, Software Engineering, and Web Technology. The contributions describe the most recent developments in information technology and ideas, applications and problems related to technology convergence, illustrated through case studies, and reviews converging existing security techniques. Through this volume, readers will gain an understanding of the current state-of-the-art information strategies and technologies of convergence security. The intended readers are researchers in academia, industry and other research institutes focusing on information science and technology.

The book presents high-quality papers from the Third International Conference on Microelectronics, Computing & Communication Systems (MCCS 2018). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communications, optical communication, instrumentation, signal processing, 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. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements, and testing. The applications and solutions discussed in the book provide excellent reference material for future product development.

This book constitutes the refereed proceedings of the 27th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems, FORTE 2007, held in Tallinn, Estonia, in September 2007 co-located with TestCom/FATES 2007. It covers service oriented computing and architectures using formalized and verified approaches.

This is the only practical, hands-on guide available to database administrators to secure their Oracle databases. This book will help the DBA to assess their current level of risk as well as their existing security posture. It will then provide practical, applicable

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knowledge to appropriately secure the Oracle database. The only practical, hands-on guide for securing your Oracle database published by independent experts. Your Oracle database does not exist in a vacuum, so this book shows you how to securely integrate your database into your enterprise.

RFID an Keypad Door Lock and Alert System Using Arduinoarduino instructorProceedings of the Third International Conference on Microelectronics, Computing and Communication SystemsMCCS 2018Springer

The second international conference on INformation Systems Design and Intelligent Applications (INDIA – 2015) held in Kalyani, India during January 8-9, 2015. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of two different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy, communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist.

This book is a compilation of peer-reviewed papers presented at the International Conference on Machine Intelligence and Data Science Applications, organized by the School of Computer Science, University of Petroleum & Energy Studies, Dehradun, on September 4 and 5, 2020. The book starts by addressing the algorithmic aspect of machine intelligence which includes the framework and optimization of various states of algorithms. Variety of papers related to wide applications in various fields like image processing, natural language processing, computer vision, sentiment analysis, and speech and gesture analysis have been included with upfront details. The book concludes with interdisciplinary applications like legal, health care, smart society, cyber physical system and smart agriculture. The book is a good reference for computer science engineers, lecturers/researchers in machine intelligence discipline and engineering graduates.

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. In 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.

This book includes selected papers from the 4th International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC 2020), held in Coimbatore,

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India, from November 19 to 20, 2020. This proceedings book presents state-of-the-art research innovations in computational vision and bio-inspired techniques. The book reveals the theoretical and practical aspects of bio-inspired computing techniques, like machine learning, sensor-based models, evolutionary optimization and big data modeling and management that make use of effectual computing processes in the bio-inspired systems. As such it contributes to the novel research that focuses on developing bio-inspired computing solutions for various domains, such as humancomputer interaction, image processing, sensor-based single processing, recommender systems and facial recognition, which play an indispensable part in smart agriculture, smart city, biomedical and business intelligence applications.

As lifestyles in personal and public spheres become more fast-paced and hectic, the need for reliable mobile technologies becomes increasingly important. Insights into the various impacts of mobile applications pave the way for future advances and developments in communication and interaction. *Critical Socio-Technical Issues Surrounding Mobile Computing* is a pivotal reference source for research-based perspectives on the use and application of mobile technology in modern society. Featuring extensive research on a variety of topics relating to the social, technical, and behavioral perspectives of mobile applications, this book is an essential reference source for mobile application developers, instructors, practitioners, and students interested in current research on the impact of mobile devices on individuals and society as a whole.

The book is a collection of high-quality peer-reviewed research papers presented in International Conference on Soft Computing Systems (ICSCS 2015) held at Noorul Islam Centre for Higher Education, Chennai, India. These research papers provide the latest developments in the emerging areas of Soft Computing in Engineering and Technology. The book is organized in two volumes and discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. It presents invited papers from the inventors/originators of new applications and advanced technologies.

This book constitutes the refereed proceedings of the 6th International Conference on Advances in Visual Informatics, IVIC 2019, held in Bangi, Malaysia, in November 2019. The 65 papers presented were carefully reviewed and selected from 130 submissions. The papers are organized into the following topics: Visualization and Digital Innovation for Society 5.0; Engineering and Digital Innovation for Society 5.0; Cyber Security and Digital Innovation for Society 5.0; and Social Informatics and Application for Society 5.0. A completely updated and expanded comprehensive treatment of VHDL and its applications to the design and simulation of real, industry-standard circuits. This comprehensive treatment of VHDL and its applications to the design and simulation of real, industry-standard circuits has been completely updated and expanded for the third edition. New features include all VHDL-2008 constructs, an extensive review of digital circuits, RTL analysis, and an unequalled collection of VHDL examples and exercises. The book focuses on the use of VHDL rather than solely on the language, with an emphasis on design examples and laboratory exercises. The third edition begins with a detailed review of digital circuits (combinatorial, sequential, state machines, and FPGAs), thus providing a self-contained single reference for the teaching of digital circuit design with VHDL. In its coverage of VHDL-2008, it makes a clear distinction

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between VHDL for synthesis and VHDL for simulation. The text offers complete VHDL codes in examples as well as simulation results and comments. The significantly expanded examples and exercises include many not previously published, with multiple physical demonstrations meant to inspire and motivate students. The book is suitable for undergraduate and graduate students in VHDL and digital circuit design, and can be used as a professional reference for VHDL practitioners. It can also serve as a text for digital VLSI in-house or academic courses.

The most complete, up-to-date resource for home technology integration and home automation available, Residential Integrator's Guide to Digital Home Technology Integration explores how the latest high-tech systems converge to create integrated, whole-home unified systems. With a focus on installation, troubleshooting, and maintenance, coverage includes LANs, internet connectivity, video and audio systems, telephone systems, security systems, lighting controls, and more. The book first focuses on the basics of each technology segment, what it does, and how its various components work, and then progresses to explain how to connect these components into a unified working system that accomplishes a specific function. This instruction culminates in the ultimate in home technology integration fundamentals: it reveals how all home technologies can be integrated in a single home automation and communication system that provides maximum performance in all areas, while staying within the budget of the average home owner. Designed for the professional installer who wants to obtain DHTI+ certification or do-it-yourself home owners, the book's straightforward writing style and comprehensive approach make this a valuable resource. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book features best selected research papers presented at the International Conference on Machine Learning, Internet of Things and Big Data (ICMIB 2020) held at Indira Gandhi Institute of Technology, Sarang, India, during September 2020. It comprises high-quality research work by academicians and industrial experts in the field of machine learning, mobile computing, natural language processing, fuzzy computing, green computing, human-computer interaction, information retrieval, intelligent control, data mining and knowledge discovery, evolutionary computing, IoT and applications in smart environments, smart health, smart city, wireless networks, big data, cloud computing, business intelligence, internet security, pattern recognition, predictive analytics applications in healthcare, sensor networks and social sensing and statistical analysis of search techniques.

The rapid evolution of technology continuously changes the way people interact, work, and learn. By examining these advances from a sociological perspective, researchers can further understand the impact of cyberspace on human behavior, interaction, and cognition. Multigenerational Online Behavior and Media Use: Concepts, Methodologies, Tools, and Applications is a vital reference source covering the impact of social networking platforms on a variety of relationships, including those between individuals, governments, citizens, businesses, and consumers. The publication also highlights the negative behavioral, physical, and mental effects of increased online usage and screen time such as mental health issues, internet addiction, and body image. Showcasing a range of topics including online dating, smartphone dependency, and cyberbullying, this multi-volume book is ideally designed for sociologists, psychologists, computer

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scientists, engineers, communication specialists, academicians, researchers, and graduate-level students seeking current research on media usage and its behavioral effects.

This book is a marvellous thing: an important intervention in the policy debate about information security and a practical text for people trying to improve the situation. — Cory Doctorow author, co-editor of *Boing Boing* A future with billions of connected "things" includes monumental security concerns. This practical book explores how malicious attackers can abuse popular IoT-based devices, including wireless LED lightbulbs, electronic door locks, baby monitors, smart TVs, and connected cars. If you're part of a team creating applications for Internet-connected devices, this guide will help you explore security solutions. You'll not only learn how to uncover vulnerabilities in existing IoT devices, but also gain deeper insight into an attacker's tactics. Analyze the design, architecture, and security issues of wireless lighting systems Understand how to breach electronic door locks and their wireless mechanisms Examine security design flaws in remote-controlled baby monitors Evaluate the security design of a suite of IoT-connected home products Scrutinize security vulnerabilities in smart TVs Explore research into security weaknesses in smart cars Delve into prototyping techniques that address security in initial designs Learn plausible attacks scenarios based on how people will likely use IoT devices

Blackwell's Five-Minute Veterinary Practice Management Consult, Second Edition has been extensively updated and expanded, with 55 new topics covering subjects such as online technologies, hospice care, mobile practices, compassion fatigue, practice profitability, and more. Carefully formatted using the popular Five-Minute Veterinary Consult style, the book offers fast access to authoritative information on all aspects of practice management. This Second Edition is an essential tool for running a practice, increasing revenue, and managing staff in today's veterinary practice. Addressing topics ranging from client communication and management to legal issues, financial management, and human resources, the book is an invaluable resource for business management advice applicable to veterinary practice. Sample forms and further resources are now available on a companion website. Veterinarians and practice managers alike will find this book a comprehensive yet user-friendly guide for success in today's challenging business environment.

This book is a collection of best selected papers presented at the International Conference on Inventive Computation and Information Technologies (ICICIT 2020), organized during 24-25 September 2020. The book includes papers in the research area of information sciences and communication engineering. The book presents novel and innovative research results in theory, methodology and applications of communication engineering and information technologies.

Biometrics is becoming increasingly common in establishments that require high security such as state security and financial sectors. The increased threat to national security by terrorists has led to the explosive popularity of biometrics. Biometric devices are now available to capture biometric measurements such as fingerprints, palm, retinal scans, keystroke, voice recognition and facial scanning. However, the accuracy of these measurements varies, which has a direct relevance on the levels of security they offer. With the need to combat the problems related to identify theft and other security issues, society will have to compromise between security and personal freedoms.

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Securing Biometrics Applications investigates and identifies key impacts of biometric security applications, while discovering opportunities and challenges presented by the biometric technologies available.

Cloud technologies have revolutionized the way we store information and perform various computing tasks. With the rise of this new technology, the ability to secure information stored on the cloud becomes a concern. The Handbook of Research on Securing Cloud-Based Databases with Biometric Applications explores the latest innovations in promoting cloud security through human authentication techniques. Exploring methods of access by identification, including the analysis of facial features, fingerprints, DNA, dental characteristics, and voice patterns, this publication is designed especially for IT professionals, academicians, and upper-level students seeking current research surrounding cloud security.

Arduino Keyless Door Lock System With Keypad and LCD

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Essential System Administration,3rd Edition is the definitive guide for Unix system administration, covering all the fundamental and essential tasks required to run such divergent Unix systems as AIX, FreeBSD, HP-UX, Linux, Solaris, Tru64 and more. Essential System Administration provides a clear, concise, practical guide to the real-world issues that anyone responsible for a Unix system faces daily. The new edition of this indispensable reference has been fully updated for all the latest operating systems. Even more importantly, it has been extensively revised and expanded to consider the current system administrative topics that administrators need most. Essential System Administration,3rd Edition covers: DHCP, USB devices, the latest automation tools, SNMP and network management, LDAP, PAM, and recent security tools and techniques. Essential System Administration is comprehensive. But what has made this book the guide system administrators turn to over and over again is not just the sheer volume of valuable information it provides, but the clear, useful way the information is presented. It discusses the underlying higher-level concepts, but it also provides the details of the procedures needed to carry them out. It is not organized around the features of the Unix operating system, but around the various facets of a system administrator's job. It describes all the usual administrative tools that Unix provides, but it also shows how to use them intelligently and efficiently. Whether you use a standalone Unix system, routinely provide administrative support for a larger shared system, or just want an understanding of basic administrative functions, Essential System Administration is for you. This comprehensive and invaluable book combines the author's years of practical experience with technical expertise to help you manage Unix systems as productively and painlessly as possible.

Our increased reliance on computer technology for all aspects of life, from education to business, means that the field of cyber-security has become of paramount importance to us all. This book presents the proceedings of the inaugural Singapore Cyber-Security R&D Conference (SG-CRC 2016), held in Singapore in January 2016, and contains six full and seven short peer-reviewed papers. The conference took as its theme the importance of introducing a technically grounded plan for integrating cyber-security into a system early in the design process, rather than as an afterthought. The element of design is integral to a process, be it a purely software system, such as one engaged in managing online transactions, or a combination of hardware and software such as those used in Industrial Control Systems, pacemakers, and a multitude of IoT devices. SG-CRC 2016 focused on how design as an element can be made explicit early in the development process using novel techniques based on sound mathematical tools and engineering approaches, and brought together academics and practitioners from across the world to participate in a program of research papers and industrial best practice, as well as an exhibition of tools. The book will be of interest to all those

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with a working interest in improved cyber-security.

This book comprises select proceedings of the international conference ETAEERE 2020, and covers latest research in the areas of electronics, communication and computing. The book includes different approaches and techniques for specific applications using particle swarm optimization, Otsu's function and harmony search optimization algorithm, DNA-NAND gate, triple gate SOI MOSFET, micro-Raman and FTIR analysis, high-k dielectric gate oxide, spectrum sensing in cognitive radio, microstrip antenna, GPR with conducting surfaces, energy efficient packet routing, iBGP route reflectors, circularly polarized antenna, double fork shaped patch radiator, implementation of Doppler radar at 24 GHz, iris image classification using SVM, digital image forgery detection, secure communication, spoken dialog system, and DFT-DCT spreading strategies. Given the range of topics covered, this book can be useful for both students and researchers working in electronics and communication.

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