

Password Based Door Lock System Using 8051 Microcontroller

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2023-02-09

CAMERON TALAN

[Inventive Computation and Information Technologies](#) Springer Nature

Nowadays, online technologies are the core of most fields of engineering and the whole society and are inseparable connected for example with Internet of Things & Industrial Internet of Things (Industry 4.0), Online & Biomedical Engineering, Data Science, Machine Learning, and Artificial Intelligence, Cross & Mixed Reality, and Remote Working Environments. to name only a few. Since the first REV conference in 2004, we tried to focus on the upcoming use of the Internet for engineering tasks and the opportunities as well as challenges around it. Consequently, the motto of this year's REV2022 was "Artificial Intelligence and Online Engineering". In a globally connected world, the interest in online collaboration, teleworking, remote services, and other digital working environments is rapidly increasing. In response to that, the general objective of this conference is to contribute and discuss fundamentals, applications, and experiences in the field of Online and Remote Engineering, Virtual Instrumentation and other related new technologies like Cross Reality, Data Science & Big Data, Internet of Things & Industrial Internet of Things, Industry 4.0, Cyber-Security, and M2M & Smart Objects. Another objective of the conference is to discuss guidelines and new concepts for engineering education in higher and vocational education institutions, including emerging technologies in learning, MOOCs & MOOLs, and Open Resources. REV2022 was the 19th in a series of annual events concerning the area of Online Engineering. It has been organized in cooperation with The British University in Egypt (BUE), Cairo, as a hybrid event from February 28 until March 02, 2022.

Proceedings of Third International Conference on Sustainable Expert Systems arduino instructor

Recent developments in parallel computing mean that the use of machine learning techniques and intelligence to handle the huge volume of available data have brought the faster solutions offered by advanced technologies to various fields of application. This book presents the proceedings of the Virtual International Conference on Advances in Parallel Computing Technologies and Applications (ICAPTA 2021), hosted in Justice Basheer Ahmed Sayeed College for women (formerly "S.I.E.T Women's College"), Chennai, India, and held online as a virtual event on 15 and 16 April 2021. The aim of the conference was to provide a forum for sharing knowledge in various aspects of parallel computing in communications systems and networking, including cloud and virtualization solutions, management technologies, and vertical application areas. It also provided a platform for scientists, researchers, practitioners and academicians to present and discuss the most recent innovations and trends, as well as the concerns and practical challenges encountered in this field. Included here are 52 full length papers, selected from over 100 submissions based on the reviews and comments of subject experts. Topics covered include parallel computing in communication, machine learning intelligence for parallel computing and parallel computing for software services in theoretical and practical aspects. Providing an overview of the latest developments in the field, the book will be of interest to all those whose work involves the use of parallel computing technologies.

Artificial Intelligence and Speech Technology arduino instructor

The 2009 International Conference on Mechanical and Electronics Engineering (ICMEE 2009) will be held in Chennai, India from 24-26 July, 2009. The aim of ICMEE 2009 is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research findings and development activities in mechanical and electronics engineering. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to forge new business or research relations and to find global partners for future collaboration.

Mechanical And Electronics Engineering - Proceedings Of The International Conference On Icmee 2009 arduino instructor

This book covers the proceedings of the 4th International Conference on Energy Systems, Drives, and Automations (ESDA2021). It comprises interesting topics in renewable energy, power management, drives of electrical machines, and automation. It also discusses different tools and techniques to match the conference theme. This book also comprehensively discusses related tools and techniques and is a valuable resource for researchers and professionals in electrical and mechanical engineering disciplines.

Recent Advances in Mechanical Engineering arduino instructor

This book includes the papers presented in 2nd International Conference on Image Processing and Capsule Networks [ICIPCN 2021]. In this digital era, image processing plays a significant role in wide range of real-time applications like sensing, automation, health care, industries etc. Today, with many technological advances, many state-of-the-art techniques are integrated with image processing domain to enhance its adaptiveness, reliability, accuracy and efficiency. With the advent of intelligent technologies like machine learning especially deep learning, the imaging system can make decisions more and more accurately. Moreover, the application of deep learning will also help to identify the hidden information in volumetric images. Nevertheless, capsule network, a type of deep neural network, is revolutionizing the image processing domain; it is still in a research and development phase. In this perspective, this book includes the state-of-the-art research works that integrate intelligent techniques with image processing models, and also, it reports the recent advancements in image processing techniques. Also, this book includes the novel tools and

techniques for deploying real-time image processing applications. The chapters will briefly discuss about the intelligent image processing technologies, which leverage an authoritative and detailed representation by delivering an enhanced image and video recognition and adaptive processing mechanisms, which may clearly define the image and the family of image processing techniques and applications that are closely related to the humanistic way of thinking.

Intelligent Communication Technologies and Virtual Mobile Networks arduino instructor

Arduino The Best One Hundred Ninety Projects

Arduino The Best Two Hundred Projects Springer Nature

INDUSTRIAL CONTROL SYSTEMS This volume serves as a comprehensive guide in the journey of industrial control systems with a multidisciplinary approach to the key engineering problems in the 21st century. The journey of the control system may be viewed from the control of steam engines to spacecraft, aeroplane missile control systems to networked control systems and cybersecurity controls. In terms of industrial control and application, the journey starts from the design of P-I-D controllers to fuzzy controllers, neuro-fuzzy controllers, backstepping controllers, sliding mode controllers, and event-triggered controls for networked control systems. Recently, control theory has spread its golden feathers in different fields of engineering by use of the splendid tool of the control system. In this era, the boom of the Internet of Things is at its maximum pace. Different biomedical applications also come under this umbrella and provide the easiest way to continuous monitoring. One of the prominent research areas of green energy and sustainable development in which control plays a vital role is load frequency controllers, control of solar thermal plants, an event-driven building energy management system, speed-sensorless voltage and frequency control in autonomous DFIG-based wind energy, Hazardous Energy Control Programs, and many more. This exciting new volume: Offers a complete journey through industrial control systems Is written for multidisciplinary students and veteran engineers alike Benefits researchers from diverse disciplines with real-world applications

[AI Enabled IoT for Electrification and Connected Transportation](#) Springer Nature

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. Chapter "An Event-Driven Multi Agent System for Scalable Traffic Optimization" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Arduino The Best One Hundred Eighty Projects Springer Nature

This book constitutes revised selected papers of the 8th International Symposium on Security in Computing and Communications, SSCC 2020, held in Chennai, India, in October 2020. Due to the COVID-19 pandemic the conference was held online. The 13 revised full papers and 8 revised short papers presented were carefully reviewed and selected from 42 submissions. The papers cover wide research fields including cryptography, database and storage security, human and societal aspects of security and privacy.

Web, Artificial Intelligence and Network Applications Springer Nature

Arduino The Best One Hundred Fifty Projects

High-Security Mechanical Locks IGI Global

In an era marked by rapid technological progress, women's safety remains a pressing concern despite strides toward gender equality. Women continue to grapple with safety challenges in both public and private spaces, enduring harassment, violence, and discrimination driven by entrenched societal norms and modern complexities. Amidst these challenges, harnessing the potential of artificial intelligence (AI) emerges as a promising avenue to reshape the landscape of women's safety. The groundbreaking book, *AI Tools and Applications for Women's Safety*, curated by experts Sivaram Ponnusamy, Vibha Bora, Prema Daigavane, and Sampada Wazalwar, delves into the transformative power of AI to address the daily safety concerns women face. This timely volume explores innovative AI-driven resources and applications that redefine personal security, offering tailored protection through real-time threat assessment and emergency response coordination. With comprehensive insights spanning academia, law enforcement, policymaking, and advocacy, this book covers predictive safety analytics, smart surveillance, ethical considerations, and more. *AI Tools and Applications for Women's Safety* not only sheds light on the promise of AI but also paves the way for informed discourse and meaningful action,

ushering in a future defined by women's empowerment and security.

[Proceedings of the 4th International Conference on Data Science, Machine Learning and Applications](#) CRC Press

This book provides a written record of the synergy that already exists among the research communities and represents a solid framework in the advancement of big data and cloud computing disciplines from which new interaction will result in the future. This book is a compendium of the International Conference on Big Data and Cloud Computing (ICBDCC 2021). It includes recent advances in big data analytics, cloud computing, the Internet of nano things, cloud security, data analytics in the cloud, smart cities and grids, etc. This book primarily focuses on the application of knowledge that promotes ideas for solving the problems of society through cutting-edge technologies. The articles featured in this book provide novel ideas that contribute to the growth of world-class research and development. The contents of this book are of interest to researchers and professionals alike.

[Information Science and Applications \(ICISA\) 2016](#) Springer Nature

[Arduino Keyless Door Lock System With Keypad and LCD](#)

[Industrial Control Systems](#) IGI Global

This book gathers selected papers presented at the International Conference on Artificial Intelligence and Communication Technologies (ICAICT2023), held at Shenzhen, China during June 2023. The first volume of the proceedings will focus on the newest methods and algorithms in smart wireless communications in the areas of Remote sensing and machine learning, Intelligent image and data processing, Health systems and security, Intelligent teaching applications and many others.

[Proceedings of 4th International Conference on Frontiers in Computing and Systems](#) Springer Nature

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.

[Energy Systems Design for Low-Power Computing](#) Springer Nature

With the advancement in computing technologies, the need for power is also increasing. Approximately 3% of the total power consumption is spent by data centers and computing devices. This percentage will rise when more internet of things (IoT) devices are connected to the web. The handling of this data requires immense power. Energy Systems Design for Low-Power Computing disseminates the current research and the state-of-the-art

technologies, topologies, standards, and techniques for the deployment of energy intelligence in edge computing, distributed computing, and centralized computing infrastructure. Covering topics such as electronic cooling, stochastic data analysis, and energy consumption, this premier reference source is an excellent resource for data center designers, VLSI designers, network developers, students and teachers of higher education, librarians, researchers, and academicians.

[Fundamentals of Embedded Software](#) Springer Nature

This book includes peer reviewed articles from the 4th International Conference on Data Science, Machine Learning and Applications, 2022, held at the Hyderabad Institute of Technology & Management on 26-27th December, India. ICDSMLA is one of the most prestigious conferences conceptualized in the field of Data Science & Machine Learning offering in-depth information on the latest developments in Artificial Intelligence, Machine Learning, Soft Computing, Human Computer Interaction, and various data science & machine learning applications. It provides a platform for academicians, scientists, researchers and professionals around the world to showcase broad range of perspectives, practices, and technical expertise in these fields. It offers participants the opportunity to stay informed about the latest developments in data science and machine learning.

[Arduino The Best Seventy Projects](#) Springer Nature

The book is a collection of high-quality research papers presented at Intelligent Communication Technologies and Virtual Mobile Networks (ICICV), held at Francis Xavier Engineering College, Tirunelveli, Tamil Nadu, India, during February 10-11, 2022. The book shares knowledge and results in theory, methodology and applications of communication technology and mobile networks. The book covers innovative and cutting-edge work of researchers, developers and practitioners from academia and industry working in the area of computer networks, network protocols and wireless networks, data communication technologies and network security.

[Artificial Intelligence and Online Engineering](#) Springer Nature

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 and natural language processing.

[Proceedings of the Third International Conference on Microelectronics, Computing and Communication Systems](#) arduino instructor

The book presents the select proceedings of 5th International Conference on Mechanical Engineering (ICOME). ICOME is a series of international conference in mechanical engineering held every two years in Indonesia. The covered topics include aerodynamics and fluid mechanics, air conditioning and cooling system, turbomachinery and alternative fuels, modeling, simulation and optimization, thermodynamics and heat transfer, and combustion system. This book also covers material engineering, composite materials, biomaterials, fatigue and fracture, corrosion, tribology, and biomechanics. Given the contents, the book is useful for students, researchers, and professionals in the area of mechanical engineering and materials.