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# Password Based Door Lock System Using 8051 Microcontroller

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Proceedings of the 2023 International Conference on Image, Algorithms and Artificial Intelligence (ICIAAI 2023)

Advances in Parallel Computing Technologies and Applications

CompTIA PenTest+ Certification For Dummies

AI Enabled IoT for Electrification and Connected Transportation

Artificial Intelligence and Online Engineering

Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications

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Communications, Signal Processing, and Systems

Advances in Intelligent Computing and Communication  
Energy Systems, Drives and Automations  
Handbook of Triboelectric Nanogenerators  
Proceedings of the Third International Conference on Microelectronics, Computing  
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AI Tools and Applications for Women's Safety  
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Networking and Applications (WCNA 2022)  
Energy Systems Design for Low-Power Computing  
HIGH SECURITY LOCKING SYSTEM USING ARDUINO  
Proceedings of the 4th International Conference on Data Science, Machine Learning

and Applications  
Information Science and Applications (ICISA) 2016  
Artificial Intelligence and Speech Technology  
Knowledge-Based Intelligent Information and Engineering Systems  
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*Password Based Door  
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**BURKE PETERSEN**

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**Proceedings of the 2023  
International Conference on Image,  
Algorithms and Artificial Intelligence**

**(ICIAAI 2023)** Springer

The 2nd International Conference on  
Artificial Intelligence and Speech  
Technology (AIST2020) was organized by  
Indira Gandhi Delhi Technical University  
for Women, Delhi, India on November  
19-20, 2020. AIST2020 is dedicated to

cutting-edge research that addresses the scientific needs of academic researchers and industrial professionals to explore new horizons of knowledge related to Artificial Intelligence and Speech Technologies. AIST2020 includes high-quality paper presentation sessions revealing the latest research findings, and engaging participant discussions. The main focus is on novel contributions which would open new opportunities for providing better and low-cost solutions for the betterment of society. These include the use of new AI-based approaches like Deep Learning, CNN, RNN, GAN, and others in various Speech related issues like speech synthesis, speech recognition, etc.

*Advances in Parallel Computing Technologies and Applications* John

Wiley & Sons

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.

CompTIA PenTest+ Certification For Dummies Springer Nature

This is an open access book. Scope of Conference 2023 International Conference on Image, Algorithms and Artificial Intelligence (ICIAAI2023), which will be held from August 11 to August 13 in Singapore provides a forum for researchers and experts in different but related fields to discuss research findings. The scope of ICIAAI 2023 covers research areas such as imaging, algorithms and artificial intelligence. Related fields of research include computer software, programming languages, software engineering, computer science applications, artificial intelligence, Intelligent data analysis, deep learning, high-performance

computing, signal processing, information systems, computer graphics, computer-aided design, Computer vision, etc. The objectives of the conference are: The conference aims to provide a platform for experts, scholars, engineers and technicians engaged in the research of image, algorithm and artificial intelligence to share scientific research results and cutting-edge technologies. The conference will discuss the academic trends and development trends of the related research fields of image, algorithm and artificial intelligence together, carry out discussions on current hot issues, and broaden research ideas. It will be a perfect gathering to strengthen academic research and discussion, promote the development and progress

of relevant research and application, and promote the development of disciplines and promote talent training.

AI Enabled IoT for Electrification and Connected Transportation Springer Nature

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.

*Artificial Intelligence and Online Engineering* Springer Nature

This handbook comprehensively covers the rapidly evolving field of power generation using triboelectric nanogenerators. Since their emergence in 2012, triboelectric nanogenerators have experienced fast development both in fundamental science aspects and technological innovations resulting in a

plethora of outstanding applications and commercial opportunities in e.g. micro-nano energy systems, self-powered sensors, blue energy, and high-voltage power sources. The Handbook of Triboelectric Nanogenerators provides an indispensable overview of the state of the art in the field. It begins with a review of the physical and technological fundamentals and provides detailed coverage of triboelectric nanogenerators for cutting-edge applications from wearable electronics and medical implants to smart home sensing devices and human-machine interfacing. Edited and authored by active researchers in the field, the handbook offers a wealth of information for applied physicists and chemists, as well as materials scientists and engineers. In addition, mechanical

and electronic engineers working in the fields of energy scavenging, power sources, and sensor-related application development will benefit greatly from the technical information presented in this groundbreaking reference work.

Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications  
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](http://link.springer.com).

*Arduino Keyless Door Lock System With Keypad and LCD* 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.

Proceedings of the International Conference on Soft Computing Systems

arduino instructor

This book constitutes the refereed proceedings of the 9th International Conference on Future Data and Security Engineering, FDSE 2022, held in Ho Chi Minh City, Vietnam, during November 23-25, 2022. The 41 full papers (including 4 invited keynotes) and 12 short papers included in this book were carefully reviewed and selected

from 170 submissions. They were organized in topical sections as follows: invited keynotes; big data analytics and distributed systems; security and privacy engineering; machine learning and artificial intelligence for security and privacy; smart city and industry 4.0 applications; data analytics and healthcare systems; and security and data engineering.

### **Recent Advances in Mechanical Engineering**

Springer Nature  
This conference will provide an opportunity for researchers, educators and students to discuss and exchange ideas on issues, trends, and developments in Computing and Communication Contributed papers are solicited describing original works in the above mentioned fields and related

technologies The conference will include a peer reviewed program of technical sessions, special sessions, business application sessions, tutorials, and demonstration sessions All accepted papers will be presented during the parallel sessions of the Conference and papers will be submitted for publication at IEEE Xplore Digital Library This conference will also promote an intense dialogue between academia and industry to bridge the gap between academic research, industry initiatives, and governmental policies This is fostered through panel discussions, keynotes, invited talks and exhibits where academia is exposed to trends in the industry and industry gets insight into latest academic researches  
[Top 200 Arduino Project](#) Springer Nature

This book presents an overview of artificial intelligence (AI) in the automotive section, especially in the modern era of green energy-based electrification of vehicles and smart transportation systems. The book also discusses different Internet of Things aspects involved in the automotive domain with AI. The book presents autonomous driving systems, advanced driver assistance systems (ADAS), autonomy, AI involvement, and machine learning techniques with challenges in electrification, prognostics, and diagnostics. AI and IoT are two emerging technologies, and their importance in other modern technology electrification on transportation, connected vehicle segment are discussed thoroughly in this book with different topologies. It also

presents AI applications in the charging profile prediction, state of charge, state of health, battery lifetime, and battery temperature detection in dynamic conditions. Different algorithms are also given in the book to discuss the nearest point charging station for electric vehicle users. The book also discusses cybersecurity issues and challenges in the real-time environment for AI implementation, IoT in transportation, and autonomous driving. The other aspects of telematics, smart sensors for the implementation of the IoT, and AI are also discussed, especially in guidance and control aspects. The book will be useful for the researchers, practitioners, and industry people working in AI, IoT in the electrification and transportation segment.

Disruptive Technologies for Big Data and Cloud Applications arduino instructor

This book features high-quality research papers presented at the 3rd International Conference on Sustainable Expert Systems (ICSES 2022), held in Nepal during September 9–10, 2022. The book focuses on the research information related to artificial intelligence, sustainability and expert systems applied in almost all the areas of industries, government sectors and educational institutions worldwide. The main thrust of the book is to publish the conference papers that deal with the design, implementation, development, testing and management of intelligent and sustainable expert systems and also to provide both theoretical and practical guidelines for the deployment of these

systems.

Proceedings of the Singapore Cyber-Security Conference (SG-CRC) 2016

Springer Nature

This volume comprises peer-reviewed proceedings of the International Conference on Robotics, Control, Automation, and Artificial Intelligence (RCAAI 2022). It aims to provide a broad spectrum picture of the state of art research and development in the areas of intelligent control, the Internet of Things, machine vision, cybersecurity, robotics, circuits, and sensors, among others. This volume will provide a valuable resource for those in academia and industry.

**Communications, Signal Processing, and Systems** IGI Global

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.

*Advances in Intelligent Computing and Communication* Archers & Elevators Publishing House

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. *Energy Systems, Drives and Automations* Springer Nature  
This book discusses the latest

developments and outlines future trends in the fields of microelectronics, electromagnetics and telecommunication. It contains original research works presented at the International Conference on Microelectronics, Electromagnetics and Telecommunication (ICMEET 2021), held in Bhubaneswar, Odisha, India during 27 – 28 August 2021. The papers were written by scientists, research scholars and practitioners from leading universities, engineering colleges and R&D institutes from all over the world and share the latest breakthroughs in and promising solutions to the most important issues facing today's society. **Handbook of Triboelectric Nanogenerators** IOS Press  
This book presents high-quality research

papers presented at the 3rd International Conference on Intelligent Computing and Advances in Communication (ICAC 2020) organized by Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India, in November 2020. This book brings out the new advances and research results in the fields of theoretical, experimental, and applied signal and image processing, soft computing, networking, and antenna research. Moreover, it provides a comprehensive and systematic reference on the range of alternative conversion processes and technologies.

*Proceedings of the Third International Conference on Microelectronics, Computing and Communication Systems*  
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.

*AI Tools and Applications for Women's Safety* IOS Press

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.

*Proceedings of International Conference on Artificial Intelligence and Communication Technologies (ICAICT 2023)* Springer

Arduino Keyless Door Lock System With Keypad and LCD

**Fundamentals of Embedded Software** Springer Nature

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.

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