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Raspberry Pi Technology Frontiers in Intelligent Computing: Theory and Applications Machine Intelligence and Soft Computing Futuristic Sustainable Energy & Technology XBee IEEE 802.15.4 Programming Advances in Computers Advances in Computing and Data Sciences Internet of Things and Its Applications Raspberry Pi 2022 Uncertainties in Modern Power Systems Advances in Computational Collective Intelligence Military Applications of Data Analytics Distributed Computing and Optimization Techniques Applications in Electronics Pervading Industry, Environment and Society Raspberry Pi Intelligent Computing and Networking Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1 Machine Learning, Image Processing, Network Security and Data Sciences Wireless Sensor Network Proceedings of the 11th National Technical Seminar on Unmanned System Technology 2019 High-Performance Computing Applications in Numerical Simulation and Edge Computing Modeling and Design of Secure Internet of Things Internet of Things A to Z Recent Advances in Sustainable Technologies Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough Proceedings of Second International Conference on Smart Energy and Communication Cognitive Informatics and Soft Computing Innovations in Cyber Physical Systems Advances in Parallel & Distributed Processing, and Applications Raspberry Pi Proceedings of International Conference on Computational Intelligence and Computing Intelligent Computing & Optimization Object Detection with Deep Learning Models Soft Computing for Security Applications Innovative Technologies in Intelligent Systems and Industrial Applications Computer Science – CACIC 2019 Proceedings of Eighth International Congress on Information and Communication Technology WSN and IoT Intelligent Communication Technologies and Virtual Mobile Networks Wireless Internet



reference is useful for researchers engineers and operators in power distribution systems includes innovative research outcomes programs algorithms and approaches that consolidate current status and future of modern power systems discusses how uncertainties will impact on the performance of power systems offers solutions to significant challenges in power systems planning to achieve the best operational performance of the different electric power sectors

**Advances in Computational Collective Intelligence** 2018-10-09 this book constitutes refereed proceedings of the 12th international conference on international conference on computational collective intelligence iccci 2020 held in da nang vietnam in november december 2020 due to the the covid 19 pandemic the conference was held online the 68 papers were thoroughly reviewed and selected from 314 submissions the papers are organized according to the following topical sections data mining and machine learning deep learning and applications for industry 4 0 recommender systems computer vision techniques decision support and control systems intelligent management information systems innovations in intelligent systems intelligent modeling and simulation approaches for games and real world systems experience enhanced intelligence to iot data driven iot for smart society applications of collective intelligence natural language processing low resource languages processing computational collective intelligence and natural language processing

**Military Applications of Data Analytics** 2022-09-12 military organizations around the world are normally huge producers and consumers of data accordingly they stand to gain from the many benefits associated with data analytics however for leaders in defense organizations either government or industry accessible use cases are not always available this book presents a diverse collection of cases that explore the realm of possibilities in military data analytics these use cases explore such topics as context for maritime situation awareness data analytics for electric power and energy applications environmental data analytics in military operations data analytics and training effectiveness evaluation harnessing single board computers for military data analytics analytics for military training in virtual reality environments a chapter on using single board computers explores their application in a variety of domains including wireless sensor networks unmanned vehicles and cluster computing the investigation into a process for extracting and codifying expert knowledge provides a practical and useful model for soldiers that can support diagnostics decision making analysis of alternatives and myriad other analytical processes data analytics is seen as having a role in military learning and a chapter in the book describes the ongoing work with the united states army research laboratory to apply data analytics techniques to the design of courses evaluation of individual and group performances and the ability to tailor the learning experience to achieve optimal learning outcomes in a minimum amount of time another chapter discusses how virtual reality and analytics are transforming training of military personnel virtual reality and analytics are also transforming monitoring decision making readiness and operations military applications of data analytics brings together a collection of technical and application oriented use cases it enables decision makers and technologists to make connections between data analytics and such fields as virtual reality and cognitive science that are driving military organizations around the world forward

**Distributed Computing and Optimization Techniques** 2019-05-10 this book introduces research presented at the international conference on distributed computing and optimization techniques idcot 2021 a two day conference where researchers engineers and academicians from all over the world came together to share their experiences and findings on all aspects of distributed computing and its applications in diverse areas the book includes papers on distributed computing intelligent system optimization method mathematical modeling fuzzy logic neural networks grid computing load balancing communication it will be a valuable resource for students academics and practitioners in the industry working on distributed computing

**Applications in Electronics Pervading Industry, Environment and Society** 2019-09 this book provides a thorough overview of cutting edge research on electronics applications relevant to industry the environment and society at large it covers a broad spectrum of application domains from automotive to space and from health to security while devoting special attention to the use of embedded devices and sensors for imaging communication and control the book is based on the 2018 applepies conference held in pisa italy in september 2018 which brought together researchers and stakeholders to consider the most significant current trends in the field of applied electronics and to debate visions for the future areas addressed by the conference included information communication technology biotechnology and biomedical imaging space secure clean and efficient energy the environment and smart green and integrated transport as electronics technology continues to develop apace constantly meeting previously unthinkable targets further attention needs to be directed toward the electronics applications and the development of systems that facilitate human activities this book written by industrial and academic professionals represents a valuable contribution in this endeavor

**Raspberry Pi** 2014-11-30 raspberry pi

**Intelligent Computing and Networking** 2023-01-01 this volume contains 73 papers presented at csi 2014 emerging ict for bridging the future proceedings of the 49th annual convention of computer society of india the convention was held during 12 14 december 2014 at hyderabad telangana india this volume contains papers mainly focused on fuzzy systems image processing software engineering cyber security and digital forensic e commerce big data cloud computing and ict applications

**Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI) Volume 1** 2018-12-05 this book constitutes the refereed proceedings of the third international conference on machine learning image processing network security and data sciences mind 2021 the papers are organized according to the following topical sections data science and big data image processing and computer vision machine learning and computational intelligence network and cybersecurity this book aims to develop an understanding of image processing networks and data modeling by using various machine learning algorithms for a wide

range of real world applications in addition to providing basic principles of data processing this book teaches standard models and algorithms for data and image analysis

**Machine Learning, Image Processing, Network Security and Data Sciences** 2020-07-07 a wireless sensor network is a wireless network consisting of spatially distributed autonomous devices using sensors to monitor physical or environmental conditions a wsn system incorporates a gateway that provides wireless connectivity back to the wired world and distributed nodes the wireless protocol you select depends on your application requirements some of the available standards include 2.4 ghz radios based on either ieee 802.15.4 or ieee 802.11 wi fi standards or proprietary radios which are usually 900 mhz sensor nodes which are specially designed in such a typical way that they have a microcontroller which controls the monitoring a radio transceiver for generating radio waves different type of wireless communicating devices and also equipped with an energy source such as battery these devices are used to form wireless sensor network wsn which is necessary to provide sensing services and to monitor environmental conditions

**Wireless Sensor Network** 2019-08-28 this book includes research papers from the 11th national technical symposium on unmanned system technology covering a number of topics including intelligent robotics novel sensor technology control algorithms acoustics signal processing imaging techniques biomimetic robots green energy sources and underwater communication backbones and protocols it will appeal to researchers developing marine technology solutions and policy makers interested in technologies to facilitate the exploration of coastal and oceanic regions  
*Proceedings of the 11th National Technical Seminar on Unmanned System Technology 2019* 2020-06-05 this book constitutes the referred proceedings of two workshops held at the 32nd acm international conference on supercomputing acm ics 2018 in beijing china in june 2018 this volume presents the papers that have been accepted for the following workshops second international workshop on high performance computing for advanced modeling and simulation in nuclear energy and environmental science hpcms 2018 and first international workshop on hpc supported data analytics for edge computing hidec 2018 the 20 full papers presented during hpcms 2018 and hidec 2018 were carefully reviewed and selected from numerous submissions the papers reflect such topics as computing methodologies parallel algorithms simulation types and techniques machine learning

**High-Performance Computing Applications in Numerical Simulation and Edge Computing** 2018-05-09 an essential guide to the modeling and design techniques for securing systems that utilize the internet of things modeling and design of secure internet of things offers a guide to the underlying foundations of modeling secure internet of things iot techniques the contributors noted experts on the topic also include information on practical design issues that are relevant for application in the commercial and military domains they also present several attack surfaces in iot and secure solutions that need to be developed to reach their full potential the book offers material on security analysis to help with in understanding and quantifying the impact of the new attack surfaces introduced by iot deployments the authors explore a wide range of themes including modeling techniques to secure iot game theoretic models cyber deception models moving target defense models adversarial machine learning models in military and commercial domains and empirical validation of iot platforms this important book presents information on game theory analysis of cyber deception includes cutting edge research finding such as iot in the battlefield advanced persistent threats and intelligent and rapid honeynet generation contains contributions from an international panel of experts addresses design issues in developing secure iot including secure sdn based network orchestration networked device identity management multi domain battlefield settings and smart cities written for researchers and experts in computer science and engineering modeling and design of secure internet of things contains expert contributions to provide the most recent modeling and design techniques for securing systems that utilize internet of things

Modeling and Design of Secure Internet of Things 2021-05-17 a comprehensive overview of the internet of things core concepts technologies and applications internet of things a to z offers a holistic approach to the internet of things iot model the internet of things refers to uniquely identifiable objects and their virtual representations in an internet like structure recently there has been a rapid growth in research on iot communications and networks that confirms the scalability and broad reach of the core concepts with contributions from a panel of international experts the text offers insight into the ideas technologies and applications of this subject the authors discuss recent developments in the field and the most current and emerging trends in iot in addition the text is filled with examples of innovative applications and real world case studies internet of things a to z fills the need for an up to date volume on the topic this important book covers in great detail the core concepts enabling technologies and implications of the internet of things addresses the business social and legal aspects of the internet of things explores the critical topic of security and privacy challenges for both individuals and organizations includes a discussion of advanced topics such as the need for standards and interoperability contains contributions from an international group of experts in academia industry and research written for ict researchers industry professionals and lifetime it learners as well as academics and students internet of things a to z provides a much needed and comprehensive resource to this burgeoning field

Internet of Things A to Z 2020-02-04 this book presents select proceedings of the international conference on advances in sustainable technologies icastr 2020 organized by lovely professional university punjab india the topics covered in this book are multidisciplinary in nature the primary topics included in the book are from the domains of automobile engineering mechatronics material science and engineering aerospace engineering bio mechanics biomedical instrumentation mathematical techniques agricultural engineering nuclear engineering physics biodynamic modelling and ergonomics etc the contents of this book will be beneficial for beginners researchers and professionals alike

**Recent Advances in Sustainable Technologies** 2021-01-04 this book discusses various machine learning cognitive science approaches presenting high throughput research by experts in this area

bringing together machine learning cognitive science and other aspects of artificial intelligence to help provide a roadmap for future research on intelligent systems the book is a valuable reference resource for students researchers and industry practitioners wanting to keep abreast of recent developments in this dynamic exciting and profitable research field it is intended for postgraduate students researchers scholars and developers who are interested in machine learning and cognitive research and is also suitable for senior undergraduate courses in related topics further it is useful for practitioners dealing with advanced data processing applied mathematicians developers of software for agent oriented systems and developers of embedded and real time systems

**Modern Approaches in Machine Learning and Cognitive Science: A Walkthrough** 2020-01-14 this book gathers selected papers presented at the 2nd international conference on smart energy and communication icsec 2020 held at poornima institute of engineering and technology jaipur india on march 20 21 2020 it covers a range of topics in electronics and communication engineering and electrical engineering including analog circuit design image processing wireless and microwave communication optoelectronics and photonic devices nano electronics renewable energy smart grid power systems and industry applications

*Proceedings of Second International Conference on Smart Energy and Communication* 2021-09-09 the book presents new approaches and methods for solving real world problems it highlights in particular innovative research in the fields of cognitive informatics cognitive computing computational intelligence advanced computing and hybrid intelligent models and applications new algorithms and methods in a variety of fields are presented together with solution based approaches the topics addressed include various theoretical aspects and applications of computer science artificial intelligence cybernetics automation control theory and software engineering

Cognitive Informatics and Soft Computing 2021-10-18 the book presents a collection of peer reviewed articles from the international conference on innovations in cyber physical systems icicps 2020 the conference provided opportunities for the presentation of new research results and discussion about them it was also an opportunity to generation of new ideas in all cps aspects including theory tools applications systems test beds and field deployments the range of topics explored is wide and covers security control optimization machine learning game theory mechanism design mobile and cloud computing model based design verification data mining analytics signal processing and human in the loop shared or supervisory control this book will be useful to researchers students industrialist developers and practitioners alike

Innovations in Cyber Physical Systems 2020-04 the book presents the proceedings of four conferences the 26th international conference on parallel and distributed processing techniques and applications pdpta 20 the 18th international conference on scientific computing csc 20 the 17th international conference on modeling simulation and visualization methods msv 20 and the 16th international conference on grid cloud and cluster computing gcc 20 the conferences took place in las vegas nv usa july 27 30 2020 the conferences are part of the larger 2020 world congress in computer science computer engineering applied computing csce 20 which features 20 major tracks authors include academics researchers professionals and students presents the proceedings of four conferences as part of the 2020 world congress in computer science computer engineering applied computing csce 20 includes the research tracks parallel and distributed processing scientific computing modeling simulation and visualization and grid cloud and cluster computing features papers from pdpta 20 csc 20 msv 20 and gcc 20

Advances in Parallel & Distributed Processing, and Applications 2022

Raspberry Pi 2022-10-20 this book includes the original peer reviewed research articles from the international conference on computational intelligence and computing iccic 2020 held in september 2020 on a virtual platform jointly organized by sr group of institutions jhansi india iete kolkata centre india and eureka scientech research foundation kolkata india it covers the latest research in image processing computer vision and pattern recognition machine learning data mining big data and analytics information security and privacy wireless and sensor networks and iot applications artificial intelligence expert systems natural language processing image processing computer vision artificial neural networks fuzzy logic evolutionary optimization rough sets web intelligence intelligent agent technology virtual reality and visualization

**Proceedings of International Conference on Computational Intelligence and Computing** 2022-11-01 this book of springer nature is another proof of springer s outstanding and greatness on the lively interface of smart computational optimization green ict smart intelligence and machine learning it is a master piece of what our community of academics and experts can provide when an interconnected approach of joint mutual and meta learning is supported by modern operational research and experience of the world leader springer nature the 5th edition of international conference on intelligent computing and optimization took place at october 27 28 2022 via zoom objective was to celebrate creativity with compassion and wisdom with researchers scholars experts and investigators in intelligent computing and optimization across the planet to share knowledge experience innovation a marvelous opportunity for discourse and mutuality by novel research invention and creativity this proceedings book of ico 2022 is published by springer nature quality label of wonderful

Intelligent Computing & Optimization 2023-07-19 object detection with deep learning models discusses recent advances in object detection and recognition using deep learning methods which have achieved great success in the field of computer vision and image processing it provides a systematic and methodical overview of the latest developments in deep learning theory and its applications to computer vision illustrating them using key topics including object detection face analysis 3d object recognition and image retrieval the book offers a rich blend of theory and practice it is suitable for students researchers and practitioners interested in deep learning computer vision and beyond and can also be used as a reference book the comprehensive comparison of various deep learning applications helps readers with a basic understanding of

machine learning and calculus grasp the theories and inspires applications in other computer vision tasks features a structured overview of deep learning in object detection a diversified collection of applications of object detection using deep neural networks emphasize agriculture and remote sensing domains exclusive discussion on moving object detection

**Object Detection with Deep Learning Models** 2023-11-04 this book features selected papers from the international conference on soft computing for security applications icscs 2023 held at dhirajlal gandhi college of technology tamil nadu india during april 21 22 2023 it covers recent advances in the field of soft computing techniques such as fuzzy logic neural network support vector machines evolutionary computation machine learning and probabilistic reasoning to solve various real time challenges the book presents innovative work by leading academics researchers and experts from industry

**Soft Computing for Security Applications** 2020-05-13 this book presents the proceedings of the 7th international conference on innovative technologies in intelligent systems industrial application citisia held in virtual mode in kuala lumpur malaysia and sydney australia on november 16 18 2022 it showcases advances and innovations in industry 4 0 smart society 5 0 mobile technologies smart manufacturing smart data fusion hybrid intelligence cloud computing and digital society

*Innovative Technologies in Intelligent Systems and Industrial Applications* 2023-09-14 this book constitutes revised selected papers from the 25th argentine congress on computer science cacic 2019 held in río cuarto argentina in october 2019 the 27 full papers presented in this volume were carefully reviewed and selected from a total of 185 submissions they were organized in topical sections named intelligent agents and systems distributed and parallel processing computer technology applied to education graphic computation images and visualization software engineering databases and data mining hardware architectures networks and operating systems innovation in software systems signal processing and real time systems computer security innovation in computer science education and digital governance and smart cities

*Computer Science – CACIC 2019* 2024-04-26 this book gathers selected high quality research papers presented at the eighth international congress on information and communication technology held at brunel university london on 20 23 february 2023 it discusses emerging topics pertaining to information and communication technology ict for managerial applications e governance e agriculture e education and computing technologies the internet of things iot and e mining written by respected experts and researchers working on ict the book offers a valuable asset for young researchers involved in advanced studies the work is presented in four volumes

**Proceedings of Eighth International Congress on Information and Communication Technology**

2023-06-01 nowadays all of us are connected through a large number of sensor nodes smart devices and wireless terminals for these internet of things iot devices to operate seamlessly the wireless sensor network wsn needs to be robust to support huge volumes of data for information exchange resource optimization and energy efficiency this book provides in depth information about the emerging paradigms of iot and wsn in new communication scenarios for energy efficient and reliable information exchange between a large number of sensor nodes and applications wsn and iot an integrated approach for smart applications discusses how the integration of iot and wsn enables an efficient communication flow between sensor nodes and wireless terminals and covers the role of machine learning ml artificial intelligence ai deep learning dl and blockchain technologies which give way to intelligent networks this book presents how technological advancement is beneficial for real time applications involving a massive number of devices and discusses how the network carries huge amounts of data allowing information to be communicated over the internet intelligent transportation involving connected vehicles and roadside units is highlighted to show how a reality created through the intelligent integration of iot and wsn is possible convergence is discussed and its use in smart healthcare where only through the intelligent connection of devices can patients be treated or monitored remotely for telemedicine or telesurgery applications this book also looks at how sustainable development is achieved by the resource control mechanism enabling energy efficient communication a wide range of communication paradigms related to smart cities which includes smart healthcare smart transportation smart homes and intelligent data processing are covered in the book it is aimed at academicians researchers advanced level students and engineers who are interested in the advancements of iot and wsn for various applications in smart cities

**WSN and IoT** 2019-01-05 the book is a collection of high quality research papers presented at intelligent communication technologies and virtual mobile networks icicv 2023 held at francis xavier engineering college tirunelveli tamil nadu india during february 16 17 2023 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

*Intelligent Communication Technologies and Virtual Mobile Networks* this book constitutes the refereed post conference proceedings of the 11th international conference on wireless internet wicon 2018 held in taipei taiwan in october 2018 the 36 full papers were selected from 79 submissions and are grouped into the following topics wireless network artificial intelligence security iot location based services financial applications vehicular ad hoc network services and applications

**Wireless Internet**

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