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Make: Sensors A Hands-On Course in Sensors Using the Arduino and Raspberry Pi Internet of Things: A Hands-On Approach Advances in Electronics, Communication and Computing Futuristic Sustainable Energy & Technology Hands-On Mobile and Embedded Development with Qt 5 Linux Raspberry Pi 2019 Proceedings of the XVI International symposium Symorg 2018 Proceedings of Third International Conference on Intelligent Computing, Information and Control Systems The Internet of Mechanical Things Intelligent Manufacturing and Mechatronics Proceedings of the Future Technologies Conference (FTC) 2023, Volume 1 Innovative Data Communication Technologies and Application Raspberry Pi Techno-Societal 2018 Sensors and Actuators in Smart Cities Low-power Wearable Healthcare Sensors Raspberry Pi ROS Cognitive Internet of Medical Things for Smart Healthcare Proceedings of Third International Conference on Sustainable Expert Systems Telematics and Computing Privacy Preservation and Secured Data Storage in Cloud Computing Electronic Devices, Circuits, and Systems for Biomedical Applications Engineering Education for a Smart Society Systems Biology Approaches: Prevention, Diagnosis, and Understanding Mechanisms of Complex Diseases International Conference on Intelligent Computing and Smart Communication 2019 Intelligent Communication Technologies and Virtual Mobile Networks Advances in Robotics, Automation and Data Analytics Patty's Industrial Hygiene, Evaluation and Control Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics The Fourth Hand Toward Social Internet of

Things (SlOT): Enabling Technologies, Architectures and Applications
Mothering Magazine's Having a Baby, Naturally New Trends in Computational Vision and Bio-inspired Computing
Intelligent Systems for Rehabilitation Engineering Smart Devices, Applications, and Protocols for the IoT □□□□□□□□(2) Advances in Smart Vehicular Technology, Transportation, Communication and Applications
Cognitive Informatics and Soft Computing 15th WCEAM Proceedings

Make: Sensors 2014-05-06

make sensors is the definitive introduction and guide to the sometimes tricky world of using sensors to monitor the physical world with dozens of projects and experiments for you to build this book shows you how to build sensor projects with both arduino and raspberry pi use arduino when you need a low power low complexity brain for your sensor and choose raspberry pi when you need to perform additional processing using the linux operating system running on that device you ll learn about touch sensors light sensors accelerometers gyroscopes magnetic sensors as well as temperature humidity and gas sensors

A Hands-On Course in Sensors Using the Arduino and Raspberry Pi 2023-08-04

a hands on course in sensors using the arduino and raspberry pi is the first book to give a practical and wide ranging account of how to interface sensors and actuators with micro controllers raspberry pi and other control systems the author describes the progression of raw signals through conditioning stages digitization data storage and presentation the collection processing and understanding of sensor data plays a central role in industrial and scientific activities this book builds simplified models of large industrial or scientific installations that contain hardware and other building blocks including services for databases web servers control systems and messaging brokers a range of case studies are included within the book including a weather station ground vibration measurements impedance measurements interfacing medical sensors to web browsers the profile of a laser beam and a remote controlled and fire seeking robot this second edition has been updated throughout to reflect new hardware and software

releases since the book was first published newly added features include the esp32 microcontroller several environmental and medical sensors actuators for signal generation as well as a chapter on web sockets all illustrated in new case studies this book is suitable for advanced undergraduate and graduate students taking hands on laboratory courses in physics and engineering hobbyists in robotics clubs and other enthusiasts will also find this book of interest features includes practical hands on exercises that can be conducted in student labs or even at home covers the latest software and hardware and all code featured in examples is discussed in detail all steps are illustrated with practical examples and case studies to enhance learning github com volkziem handsensors2ed volker ziemann obtained his phd in accelerator physics from dortmund university in 1990 after post doctoral positions in stanford at slac and in geneva at cern where he worked on the design of the lhc in 1995 he moved to uppsala where he worked at the electron cooler storage ring celsius in 2005 he moved to the physics department where he has since taught physics he was responsible for several accelerator physics projects at cern desy and xfel in 2014 he received the thuréus prize from the royal society of sciences in uppsala

Internet of Things: A Hands-On Approach 2014-08-09

internet of things iot refers to physical and virtual objects that have unique identities and are connected to the internet to facilitate intelligent applications that make energy logistics industrial control retail agriculture and many other domains smarter internet of things is a new revolution of the internet that is rapidly gathering momentum driven by the advancements in sensor networks mobile devices wireless communications networking and cloud technologies experts forecast that by the

year 2020 there will be a total of 50 billion devices things connected to the internet this book is written as a textbook on internet of things for educational programs at colleges and universities and also for iot vendors and service providers who may be interested in offering a broader perspective of internet of things to accompany their own customer and developer training programs the typical reader is expected to have completed a couple of courses in programming using traditional high level languages at the college level and is either a senior or a beginning graduate student in one of the science technology engineering or mathematics stem fields like our companion book on cloud computing we have tried to write a comprehensive book that transfers knowledge through an immersive hands on approach where the reader is provided the necessary guidance and knowledge to develop working code for real world iot applications additional support is available at the book s website internet of things book com organization the book is organized into 3 main parts comprising of a total of 11 chapters part i covers the building blocks of internet of things iots and their characteristics a taxonomy of iot systems is proposed comprising of various iot levels with increasing levels of complexity domain specific internet of things and their real world applications are described a generic design methodology for iot is proposed an iot system management approach using netconf yang is described part ii introduces the reader to the programming aspects of internet of things with a view towards rapid prototyping of complex iot applications we chose python as the primary programming language for this book and an introduction to python is also included within the text to bring readers to a common level of expertise we describe packages frameworks and cloud services including the wamp autobahn xively cloud and amazon services which can be used for developing iot systems we chose the raspberry pi device for the examples in this book reference architectures for different levels of iot applications are examined in detail case studies with

complete source code for various iot domains including home automation smart environment smart cities logistics retail smart energy smart agriculture industrial control and smart health are described part iii introduces the reader to advanced topics on iot including iot data analytics and tools for iot case studies on collecting and analyzing data generated by internet of things in the cloud are described

Advances in Electronics, Communication and Computing 2021-01-28

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

Futuristic Sustainable Energy & Technology 2022-05-01

futuristic sustainable energy and technology provides a structured

overview of the concept of futuristic sustainable energy and technology it also explores the promotion of the sustainable development of renewable energy from the perspectives of technology modelling application sustainability and policy this book is dedicated to the advancement of energy efficiency to mitigate consumption ensure and replenish expand and reuse elective energy supplies and to replicate the damage caused by previous energy initiatives this book has offered a large stage of experimentation for practitioners experts researchers and teachers to incorporate and analyze their latest developments as well as the trends and difficulties encountered and the ongoing evolution of the stage in these areas

Hands-On Mobile and Embedded Development with Qt 5 2019-04-30

explore qt framework and apis for building cross platform applications for mobile devices embedded systems and iot key featuresbuild cross platform applications and deploy them across mobile and connected devicesdesign 2d and 3d uis for embedded systems using yocto and qt creatorbuild machine to machine automation solution using qtsensors qtmqtt and qtwebsocketsbook description qt is a world class framework helping you to develop rich graphical user interfaces guis and multi platform applications that run on all major desktop platforms and most mobile or embedded platforms the framework helps you connect the dots across platforms and between online and physical experience this book will help you leverage the fully featured qt framework and its modular cross platform library classes and intuitive apis to develop applications for mobile iot and industrial embedded systems considerations such as screen size device orientation changes and small memory will be discussed we will focus on various core aspects of embedded and mobile

systems such as connectivity networking and sensors there is no iot without sensors you will learn how to quickly design a flexible fast and responsive ui that looks great going further you will implement different elements in a matter of minutes and synchronize the ui elements with the 3d assets with high precision you will learn how to create high performance embedded systems with 3d 2d user interfaces and deploy and test on your target hardware the book will explore several new features including qt for webassembly at the end of this book you will learn about creating a full software stack for embedded linux systems using yocto and boot to qt for device creation what you will learn explore the latest features of qt such as preview for qt for python and qt for webassembly create fluid uis with a dynamic layout for different sized screens deploy embedded applications on linux systems using yocto design qt apis for building applications for embedded and mobile devices utilize connectivity for networked and machine automated applications discover effective techniques to apply graphical effects using qt quick apps who this book is for the book is ideal for mobile developers embedded systems engineers and enthusiasts who are interested in building cross platform applications with qt prior knowledge of c is required

Linux 2019 1 []
2018-12-07

os ubuntu 1 linux os web ai alexa ubuntu pc

youtube 4k ubuntu 18 10

Proceedings of the XVI International symposium Symorg 2018 2018-06-12

this book is a collection of papers presented at the international conference on intelligent computing information and control systems iciccs 2021 it encompasses various research works that help to develop and advance the next generation intelligent computing and control systems the book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications the book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation artificial life virtual infrastructures fuzzy logic artificial immune systems neural networks and various neuro hybrid methodologies this book is pragmatic for researchers academicians and students dealing with mathematically intransigent problems

Proceedings of Third International Conference on Intelligent Computing, Information and Control Systems 2022-03-14

this book provides knowledge skills and strategies an engineer requires to effectively integrate internet of things iot into the field of mechanical engineering divided into three sections named iot strategies iot foundation topics and iot system development the

volume covers introduction to iot framework its components advantages challenges and practical process for effective implementation of iot from mechanical engineering perspective further it explains iot systems and hands on training modules implementation and execution of iot systems features presents exclusive material on application of iot in mechanical engineering combines theory and practice including relevant terminologies and hands on emphasis on use of iot to streamline operations reduce costs and increased profits focusses on development and implementation of raspberry pi and arduino based iot systems illustrates use iot data to improve performance of robots machines and systems this book aims at researchers graduate students in mechanical engineering computer programming automobile robotics and industry 4 0 automation

The Internet of Mechanical Things

2022-02-22

this book presents the proceedings of symposimm 2020 the 3rd edition of the symposium on intelligent manufacturing and mechatronics focusing on strengthening innovations towards industry 4 0 the book presents studies on the details of industry 4 0 s current trends divided into five parts covering various areas of manufacturing engineering and mechatronics stream namely artificial intelligence instrumentation and controls intelligent manufacturing modelling and simulation and robotics the book will be a valuable resource for readers wishing to embrace the new era of industry 4 0

Intelligent Manufacturing and

Mechatronics 2021-06-19

this book is a collection of thoroughly well researched studies presented at the eighth future technologies conference this annual conference aims to seek submissions from the wide arena of studies like computing communication machine vision artificial intelligence ambient intelligence security and e learning with an impressive 490 paper submissions ftc emerged as a hybrid event of unparalleled success where visionary minds explored groundbreaking solutions to the most pressing challenges across diverse fields these groundbreaking findings open a window for vital conversation on information technologies in our community especially to foster future collaboration with one another we hope that the readers find this book interesting and inspiring and render their enthusiastic support toward it

Proceedings of the Future Technologies Conference (FTC) 2023, Volume 1 **2023-11-01**

this book presents emerging concepts in data mining big data analysis communication and networking technologies and discusses the state of the art in data engineering practices to tackle massive data distributions in smart networked environments it also provides insights into potential data distribution challenges in ubiquitous data driven networks highlighting research on the theoretical and systematic framework for analyzing testing and designing intelligent data analysis models for evolving communication frameworks further the book showcases the latest developments in wireless sensor networks cloud computing mobile network autonomous systems cryptography automation and other communication and networking technologies in addition it addresses data security

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11/28

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conference aims to help innovators to share their best practices or products developed to solve specific local problems which in turn may help the other researchers to take inspiration to solve problems in their region on the other hand technologies proposed by expert researchers may find applications in different regions this offers a multidisciplinary platform for researchers from a broad range of disciplines of science engineering and technology for reporting innovations at different levels

Techno-Societal 2018 2019-11-06

this book is a printed edition of the special issue sensors and actuators in smart cities that was published in jsan

Sensors and Actuators in Smart Cities 2018-05-04

advances in technology have produced a range of on body sensors and smartwatches that can be used to monitor a wearer s health with the objective to keep the user healthy however the real potential of such devices not only lies in monitoring but also in interactive communication with expert system based cloud services to offer personalized and real time healthcare advice that will enable the user to manage their health and over time to reduce expensive hospital admissions to meet this goal the research challenges for the next generation of wearable healthcare devices include the need to offer a wide range of sensing computing communication and human computer interaction methods all within a tiny device with limited resources and electrical power this special issue presents a collection of six papers on a wide range of research developments that highlight the specific challenges in creating the next generation of low power wearable healthcare sensors

Low-power Wearable Healthcare Sensors 2020-12-29

raspberry pi linux ros raspberry pi mouse ros linux web github usb web ros

Raspberry Pi ROS 2017-03-30

this book aims to provide a detailed understanding of iomt supported applications while engaging premium smart computing methods and improved algorithms in the field of computer science it contains thirteen chapters discussing various applications under the umbrella of the internet of medical things these applications geared towards iomt cloud analysis machine learning computer vision and deep learning have enabled the evaluation of the proposed solutions

Cognitive Internet of Medical Things for Smart Healthcare 2020-10-19

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 Third International Conference on Sustainable Expert Systems 2023-02-22

this book constitutes the thoroughly refereed proceedings of the 7th international congress on telematics and computing witcom 2018 held in mazatlán mexico in november 2018 the 23 full papers presented in this volume were carefully reviewed and selected from 57 submissions they present and organize the knowledge from within the field of telematics and security data analytics and machine learning iot and mobile computing

Telematics and Computing 2018-11-01

as cloud services become increasingly popular safeguarding sensitive data has become paramount privacy preservation and secured data storage in cloud computing is a comprehensive book that addresses the critical concerns surrounding privacy and security in the realm of cloud computing beginning with an introduction to cloud computing and its underlying technologies the book explores various models of cloud service delivery it then delves into the challenges and risks associated with storing and processing data in the cloud including data breaches insider threats and third party access the book thoroughly examines techniques and tools to enhance privacy and security in the cloud covering encryption access control data anonymization and other measures to mitigate risks additionally it explores emerging trends

and opportunities in cloud security such as blockchain based solutions homomorphic encryption and other cutting edge technologies poised to transform data privacy and security this invaluable resource offers practical advice and in depth analysis for cloud service providers it professionals researchers and students seeking to understand best practices for securing data in the cloud

Privacy Preservation and Secured Data Storage in Cloud Computing

2023-10-25

electronic devices circuits and systems for biomedical applications challenges and intelligent approaches explains the latest information on the design of new technological solutions for low power high speed efficient biomedical devices circuits and systems the book outlines new methods to enhance system performance provides key parameters to explore the electronic devices and circuit biomedical applications and discusses innovative materials that improve device performance even for those with smaller dimensions and lower costs this book is ideal for graduate students in biomedical engineering and medical informatics biomedical engineers medical device designers and researchers in signal processing presents major design challenges and research potential in biomedical systems walks readers through essential concepts in advanced biomedical system design focuses on healthcare system design for low power efficient and highly secured biomedical electronics

Electronic Devices, Circuits, and

Systems for Biomedical Applications 2021-04-28

this book presents selected papers from the world engineering education forum global engineering deans council held in november 2016 in seoul korea the massive changes currently underway in all areas of society especially in engineering and consequently in engineering education call for new pedagogic qualifications and approaches to face these current real world challenges higher education has to find innovative ways to quickly respond to these new needs the papers gathered here address three essential problems the main approach to engineering in the 21st century is collaboration at many levels within universities or colleges between institutions and on a global scale at the same time we need a new quality of collaboration between academia industry professional and governmental organizations the complexity of engineering projects and solutions is rapidly growing and increasingly includes non technical aspects one of the key tasks for future engineers will be the development of a sustainable society which is essential to keeping the global environment in balance

Engineering Education for a Smart Society 2017-07-05

this book gathers high quality research papers presented at the first international conference icsc 2019 organised by thdc institute of hydropower engineering and technology tehri india from 20 to 21 april 2019 the book is divided into two major sections intelligent computing and smart communication some of the areas covered are parallel and distributed systems services databases and data mining applications feature selection and feature extraction high performance data mining algorithms knowledge

discovery communication protocols and architectures high speed communication high voltage insulation technologies fault detection and protection power system analysis embedded systems architectures electronics in renewable energy cad for vlsi green electronics signal and image processing pattern recognition and analysis multi resolution analysis and wavelets 3d and stereo imaging and neural networks

Systems Biology Approaches: Prevention, Diagnosis, and Understanding Mechanisms of Complex Diseases 2020-01-07

this book presents the outcomes of the intelligent communication technologies and virtual mobile networks conference icicv 2019 held in tirunelveli india on february 14 15 2019 it presents the state of the art in the field identifying emerging research topics and communication technologies and defining the future of intelligent communication approaches and virtual computing in light of the tremendous growth ict it examines the rapid developments in virtual reality in communication technology and high quality services in mobile networks including the integration of virtual mobile computing and communication technologies which permits new technologies based on the resources and services of computational intelligence big data analytics internet of things iot 5g technology automation systems sensor networks augmented reality data mining and vehicular ad hoc networks with massive cloud based backend these services have a significant impact on all areas of daily life like transportation e commerce health care secure communication location detection smart home smart city social networks and many more

International Conference on Intelligent Computing and Smart Communication 2019 2019-08-12

this book presents essentially a collection of proceedings that deliberate on the key challenges and recent trends on robotics automation and data analytics which are the pillars of industry 4.0 solutions that are employed in the multitude spectra of innovative robotics automation and data analytics are discussed the readers are expected to gain an insightful view on the current trends issues mitigating factors as well as solutions from the book this book consists of selected papers presented at the 2nd international conference on innovative technology engineering and sciences 2020 icites hosted virtually by universiti malaysia pahang on 22nd december 2020 icites is a biennial conference aimed at building a platform that allows relevant stakeholders to share and discuss their latest researches ideas and survey reports from theoretical to a practical standpoint especially in the innovative robotics automation and data analytics tracks which was published in this book

Intelligent Communication Technologies and Virtual Mobile Networks 2021-03-10

since the first edition in 1948 patty s industrial hygiene and toxicology has become a flagship publication for wiley during its nearly seven decades in print it has become a standard reference for the fields of occupational health and toxicology the volumes on industrial hygiene are cornerstone reference works for not only industrial hygienists but also chemists engineers toxicologists lawyers and occupational safety personnel volume 2 covers

chemical exposure evaluation and control along with the updated and revised chapters from the prior edition this volume has two new chapters sensor technology and control banding

Advances in Robotics, Automation and Data Analytics 2021-04-01

the internet of things iot has emerged to address the need for connectivity and seamless integration with other devices as well as big data platforms for analytics however there are challenges that iot based applications face including design and implementation issues connectivity problems data gathering storing and analyzing in cloud based environments and iot security and privacy issues emerging trends in iot and integration with data science cloud computing and big data analytics is a critical reference source that provides theoretical frameworks and research findings on iot and big data integration highlighting topics that include wearable sensors machine learning machine intelligence and mobile computing this book serves professionals who want to improve their understanding of the strategic role of trust at different levels of the information and knowledge society it is therefore of most value to data scientists computer scientists data analysts it specialists academicians professionals researchers and students working in the field of information and knowledge management in various disciplines that include but are not limited to information and communication sciences administrative sciences and management education sociology computer science etc moreover the book provides insights and supports executives concerned with the management of expertise knowledge information and organizational development in different types of work communities and environments

Patty's Industrial Hygiene, Evaluation and Control 2021-11-05

the fourth hand asks an interesting question how can anyone identify a dream of the future the answer destiny is not imaginable except in dreams or to those in love while reporting a story from india a new york television journalist has his left hand eaten by a lion millions of tv viewers witness the accident in boston a renowned hand surgeon awaits the opportunity to perform the nation s first hand transplant meanwhile in the distracting aftermath of an acrimonious divorce the surgeon is seduced by his housekeeper a married woman in wisconsin wants to give the one handed reporter her husband s left hand that is after her husband dies but the husband is alive relatively young and healthy this is how john irving s tenth novel begins it seems at first to be a comedy perhaps a satire almost certainly a sexual farce yet in the end the fourth hand is as realistic and emotionally moving as any of mr irving s previous novels including the world according to garp a prayer for owen meany and a widow for one year or his oscar winning screenplay of the cider house rules the fourth hand is characteristic of john irving s seamless storytelling and further explores some of the author s recurring themes loss grief love as redemption but this novel also breaks new ground it offers a penetrating look at the power of second chances and the will to

Emerging Trends in IoT and Integration with Data Science, Cloud Computing, and Big Data Analytics 2010-07-21

this unique book discusses a selection of highly relevant topics in the social internet of things siot including blockchain fog computing and data fusion it also presents numerous siot related

applications in fields such as agriculture health care education and security allowing researchers and industry practitioners to gain a better understanding of the social internet of things

The Fourth Hand 2019-07-23

for more than twenty five years mothering magazine has captured an audience of educated women who appreciate its we ll inform you choose approach to parenting having a baby naturally reflects this spirit with straightforward uncensored information about pregnancy and childbirth addressing common concerns and questions in a compassionate nonjudgmental style written by peggy o mara the longtime publisher editor and owner of mothering magazine it synthesizes the best theories and safest practices used in natural childbirth including recommendations from the world health organization the american academy of pediatrics and the american college of obstetricians and gynecologists throughout o mara reinforces her belief that each woman s pregnancy and birth experience is a one of a kind event she covers such topics as nutrition diet and exercise emotional self awareness during and after pregnancy a trimester by trimester guide to what is happening in your body and your child s birth choices offering suggestions not rules pain medication alternatives birth locations from hospitals to home birth relieving morning sickness with natural remedies prenatal testing breastfeeding prematurity and multiple births balancing work and family the father s role during pregnancy and beyond difficult subjects such as birth defects miscarriages and postpartum depression are also treated with sensitivity and candor finally a book for the thinking woman who believes in her own inherent capacity to make smart informed decisions about her pregnancy and birth just as she makes in other areas of her life having a baby naturally is a celebration of childbirth and an accurate and objective guide to helping women fortify their spirits develop trust in their bodies and

make the best possible choices to protect their new baby s health

Toward Social Internet of Things (SIoT): Enabling Technologies, Architectures and Applications 2007-11-01

this volume gathers selected peer reviewed original contributions presented at the international conference on computational vision and bio inspired computing iccvbic conference which was held in coimbatore india on november 29 30 2018 the works included here offer a rich and diverse sampling of recent developments in the fields of computational vision fuzzy image processing and bio inspired computing the topics covered include computer vision cryptography and digital privacy machine learning and artificial neural networks genetic algorithms and computational intelligence the internet of things and biometric systems to name but a few the applications discussed range from security healthcare and epidemic control to urban computing agriculture and robotics in this book researchers graduate students and professionals will find innovative solutions to real world problems in industry and society as a whole together with inspirations for further research

Mothering Magazine's Having a Baby, Naturally 2020-09-27

intelligent systems for rehabilitation engineering encapsulates different case studies where technology can be used as assistive technology for the physically challenged visually and hearing impaired rehabilitation engineering includes the development of technological solutions and devices to assist individuals with disabilities while also supporting the recovery of the disabled who

2023-10-12

23/28

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have lost their physical and cognitive functions these systems can be designed and built to meet a wide range of needs that can help individuals with mobility communication vision hearing and cognition the growing technological developments in machine learning deep learning robotics virtual intelligence etc play an important role in rehabilitation engineering intelligent systems for rehabilitation engineering focuses on trending research of intelligent systems in rehabilitation engineering which involves the design and development of innovative technologies and techniques including rehabilitation robotics visual rehabilitation physical prosthetics brain computer interfaces sensory rehabilitation motion rehabilitation etc this groundbreaking book provides a comprehensive reference covering different computer assistive techniques for the physically disabled visually and hearing impaired focuses on trending research of intelligent systems in rehabilitation engineering which involves the design and development of innovative technologies and techniques provides insights into the role of intelligent systems in rehabilitation engineering audience engineers and device manufacturers working in rehabilitation engineering as well as researchers in computer science artificial intelligence electronic engineering who are working on intelligent systems

New Trends in Computational Vision and Bio-inspired Computing 2022-01-05

advances in computing communications and control have bridged the physical components of reality and cyberspace leading to the smart internet of things iot the notion of iot has extraordinary significance for the future of several industrial domains hence it is expected that the complexity in the design of iot applications will continue to increase due to the integration of several cyber components with physical and industrial systems as a result

several smart protocols and algorithms are needed to communicate and exchange data between iot devices smart devices applications and protocols for the iot is a collection of innovative research that explores new methods and techniques for achieving reliable and efficient communication in recent applications including machine learning network optimization adaptive methods and smart algorithms and protocols while highlighting topics including artificial intelligence sensor networks and mobile network architectures this book is ideally designed for it specialists and consultants software engineers technology developers academicians researchers and students seeking current research on up to date technologies in smart communications protocols and algorithms in iot

Intelligent Systems for Rehabilitation Engineering 2019-03-29

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Smart Devices, Applications, and Protocols for the IoT 2021-07-01

this book constitutes the proceedings of the third international conference on smart vehicular technology transportation communication and applications vtca 2019 arad romania held on october 15 18 october 2019 in arad romania this edition is technically co sponsored by aurel vlaicu university of arad romania southwest jiaotong university fujian university of technology chang an university shandong university of science and technology fujian provincial key lab of big data mining and applications and national demonstration center for experimental electronic information and

electrical technology education fujian university of technology china romanian academy and general association of engineers in romania arad section the book covers a range of topics including algorithms for optimization video processing parking management iot software testing cryptanalysis nlp cnn wireless sensors network adaptive security data protection green transportation ai smart cities train control analytic hierarchy process big data car following model etc the books help to disseminate the knowledge about some active research directions in the field vehicle technology and communication the book provides useful information to professors researchers and graduated students in area of vehicle technology and communication

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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

***Advances in Smart Vehicular
Technology, Transportation,
Communication and Applications
2022-03-24***

this book gathers selected peer reviewed papers from the 15th world congress on engineering asset management wceam which

2023-10-12

26/28

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was hosted by the federal university of mato grosso do sul campo grande brazil from 15 18 august 2021 this book covers a wide range of topics in engineering asset management including strategy and standards sustainability and resiliency servitisation and industry 4 0 business models asset information systems and asset management decision making the breadth and depth of these state of the art comprehensive proceedings make them an excellent resource for asset management practitioners researchers and academics as well as undergraduate and postgraduate students

Cognitive Informatics and Soft Computing

15th WCEAM Proceedings

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