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Start-Up Creation Cyber-Assurance for the Internet of Things Inclusive Society: Health and Wellbeing in the Community, and Care at Home Theory And Practice Of Control And Systems - Proceedings Of The 6th Ieee Mediterranean Conference Big Data Analytics for Cyber-Physical Systems Bionic Limb Reconstruction Teaching and Learning in a Digital World Multimedia, Computer Graphics and Broadcasting, Part I Biomedical Information Technology Intelligent Communication, Control and Devices First IEEE/ACM International Symposium on Cluster Computing and the Grid Smart Materials Internet of Things Robotics, Autonomous Systems and AI for Nonurgent/Nonemergent Healthcare Delivery During and After the COVID-19 Pandemic Knowledge Innovation On Design And Culture - Proceedings Of The 3rd Ieee International Conference On Knowledge Innovation And Invention 2020 (Ieee Ickii 2020) Network and System Security Proceedings of the Future Technologies Conference (FTC) 2023, Volume 1 Artificial Intelligence Applications and Innovations Linearization and Efficiency Enhancement Techniques for Silicon Power Amplifiers Designing for a Digital and Globalized World Industrial Communication Systems Spectrum Sharing in Cognitive Radio Networks Organic Computing — A Paradigm Shift for Complex Systems Handbook of Research on Advances in Data Analytics and Complex Communication Networks Enrico Fermi’s IEEE Milestone in Florence Multimedia Analysis, Processing and Communications Internet of Things Applications - From Research and Innovation to Market Deployment Automatic Control with Experiments Recent Advances in Motion Analysis Ubiquitous Intelligent Systems Machine Learning Approaches to Non-Intrusive Load Monitoring Internet of Things A to Z Machine Learning and Knowledge Discovery in Databases Cyber-Physical Systems Persuasive Technology Advanced Technologies for Modeling, Optimization and Control of the Future Distribution Grid  Biomechanical Principles on Force Generation and Control of Skeletal Muscle and their Applications in Robotic Exoskeleton Rising Stars in Human-Robot Interaction Advances in Energy Systems

## **Start-Up Creation 2016-05-14**

start up creation the smart eco efficient built environment provides a state of the art review on high technology applications and explains how these can be applied to improve the eco efficiency of the built environment divided into four main parts the book explains the key factors behind successful startup companies that grow from university research including the development of a business plan the importance of intellectual property necessary entrepreneurial skills and innovative thinking part two presents the latest research findings on nano and bio based technologies and their application and use to the energy efficiency of the built environment part three focuses on the use of genetic algorithms big data and the internet of things applications finally the book ends with an entire section dedicated to app development using selected case studies that illustrate their application and use for monitoring building energy efficiency presents a definitive guide for startups that arise from college and university research and how the application of advanced technologies can be applied to the built environment includes case studies on new advanced technologies and apps development links startup creation to the eco efficient built environment through software applications

## ***Cyber-Assurance for the Internet of Things 2017-01-04***

presents an cyber assurance approach to the internet of things iot this book discusses the cyber assurance needs of the iot environment highlighting key information assurance ia iot issues and identifying the associated security implications through contributions from cyber assurance ia information security and iot industry practitioners and experts the text covers fundamental and advanced concepts necessary to grasp current ia issues challenges and solutions for the iot the future trends in iot infrastructures architectures and applications are also examined other topics discussed include the ia protection of iot systems and information being stored processed or transmitted from unauthorized access or modification of machine 2 machine m2m devices radio frequency identification rfid networks wireless sensor networks smart grids and supervisory control and data acquisition scada systems the book also discusses ia measures necessary to detect protect and defend iot information and networks systems to ensure their availability integrity authentication confidentiality and non repudiation discusses current research and emerging trends in ia theory applications architecture and information security in the iot based on theoretical aspects and studies of practical applications aids readers in understanding how to design and build cyber assurance into the iot exposes engineers and designers to new strategies and emerging standards and promotes active development of cyber assurance covers challenging issues as well as potential solutions encouraging discussion and debate amongst those in the field cyber assurance for the internet of things is written for researchers and professionals working in the field of wireless technologies information security architecture and security system design this book will also serve as a reference for professors and students involved in ia and iot networking tyson t brooks is an adjunct professor in the school of information studies at syracuse university he also works with the center for information and systems assurance and trust cisat at syracuse university and is an information security technologist and science practitioner dr brooks is the founder editor in chief of the international journal of internet of things and cyber assurance an associate editor for the journal of enterprise architecture the international journal of cloud computing and services science and the international journal of information and network security

## ***Inclusive Society: Health and Wellbeing in the Community, and Care at Home 2013-06-13***

this book constitutes the refereed proceedings of the 11th international conference on smart homes and health telematics icost 2013 held in singapore in june 2013 the 22 revised full papers presented together with one invited paper and 19 short papers were carefully reviewed and selected from 53 submissions the papers are organized in topical sections on supportive technology for ageing and people with cognitive impairment activity recognition and algorithmic techniques trust security and social issues assistive robotics and hci issues supporting safety and pervasive healthcare home energy usage reasoning framework services algorithms for smart homes eldercare activity recognition and fall detection healthcare and rehabilitation robotics and assistive living

## ***Theory And Practice Of Control And Systems - Proceedings Of The 6th Ieee Mediterranean Conference 1999-01-04***

this volume gathers together all the lectures presented at the 6th ieee mediterranean conference it focuses on the mathematical aspects in the theory and practice of control and systems including stability and stabilizability robust control adaptive control robotics and manufacturing these topics are under intense investigation and development in the engineering and mathematics communities the volume should have immediate appeal for a large group of engineers and mathematicians who are interested in very abstract as well as very concrete aspects of control and system theory

## ***Big Data Analytics for Cyber-Physical Systems 2020-06-25***

this book highlights research and survey articles dedicated to big data techniques for cyber physical system cps which addresses the close interactions and feedback controls between cyber components and physical components the book first discusses some fundamental big data problems and solutions in large scale distributed cpss the book then addresses the design and control challenges in multiple cps domains such as vehicular system smart city smart building and digital microfluidic biochips this book also presents the recent advances and trends in the maritime simulation system and the flood defence system

## ***Bionic Limb Reconstruction 2021-01-04***

this book presents the latest techniques in amputation rehabilitation and summarizes the most recent research findings in the field of bionic limb reconstruction divided into seven parts written by experts in the field it provides valuable information on e g upper extremity injuries psychological considerations prosthetic engineering and surgical and rehabilitation strategies illustrative figures and photos of real life settings further assist understanding this book is of interest not only for plastic surgeons but also for hand surgeons orthopedic and trauma surgeons as well as therapists prosthetists and engineers

## ***Teaching and Learning in a Digital World 2017-12-26***

this book gathers the proceedings of the 20th international conference on interactive collaborative learning icl2017 held in budapest hungary on 27 29 september 2017 the authors are currently witnessing a significant transformation in the development of education the impact of globalisation on all areas of human life the exponential acceleration of technological developments and global markets and the need for flexibility and agility are essential and challenging elements of this process that have to be tackled in general but especially in engineering education to face these current real world challenges higher education has to find innovative ways to quickly respond to them since its inception in 1998 this conference has been devoted to new approaches in learning with a focus on collaborative learning today the icl conferences offer a forum for exchange concerning relevant trends and research results and for sharing practical experience gained while developing and testing elements of new technologies and pedagogies in the learning context

## ***Multimedia, Computer Graphics and Broadcasting, Part I 2011-11-29***

the two volume set ccis 262 and 263 constitutes the refereed proceedings of the international conference mulgrab 2011 held as part of the future generation information technology conference fgit 2011 in conjunction with gdc 2011 jeju island korea in december 2011 the papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of multimedia computer graphics and broadcasting

## ***Biomedical Information Technology 2011-07-28***

the enormous growth in the field of biotechnology necessitates the utilization of information technology for the management flow and organization of data the field continues to evolve with the development of new applications to fit the needs of the biomedicine from molecular imaging to healthcare knowledge management the storage access and analysis of data contributes significantly to biomedical research and practice all biomedical professionals can benefit from a greater understanding of how data can be efficiently managed and utilized through data compression modelling processing registration visualization communication and large scale biological computing in addition biomedical information technology contains practical integrated clinical applications for disease detection diagnosis surgery therapy and biomedical knowledge discovery including the latest advances in the field such as ubiquitous m health systems and molecular imaging applications the world s most recognized authorities give their best practices ready for implementation provides professionals with the most up to date and mission critical tools to evaluate the latest advances in the field and current integrated clinical applications gives new staff the technological fundamentals and updates experienced professionals with the latest practical integrated clinical applications

## ***Intelligent Communication, Control and Devices 2018-04-10***

the book focuses on the integration of intelligent communication systems control systems and devices related to all aspects of engineering and sciences it contains high

quality research papers presented at the 2nd international conference iciccd 2017 organized by the department of electronics instrumentation and control engineering of university of petroleum and energy studies dehradun on 15 and 16 april 2017 the volume broadly covers recent advances of intelligent communication intelligent control and intelligent devices the work presented in this book is original research work findings and practical development experiences of researchers academicians scientists and industrial practitioners

## ***First IEEE/ACM International Symposium on Cluster Computing and the Grid 2001***

annotation this collection of 85 papers from the may 2001 symposium presents developments in cluster and grid computing that enable applications to share resources and content across the internet in a peer to peer manner the main areas of discussion are component and agent approaches input output and databases message passing scheduling and distributed shared memory some of the topics are design of a generic platform for scalable cluster computing based on middleware techniques early experiences with the egrid testbed software environments for cluster based display systems the performance of corba for distributed and grid applications sabotage tolerance mechanisms for volunteer computing systems and a tool kit for the simulation of application scheduling no subject index c book news inc

## ***Smart Materials 2021-09-23***

this book provides in depth coverage of smart materials including electroactive polymers eaps synthetic muscle pneumatic artificial muscle soft pneumatics hydro muscle and other cutting edge transformational smart material technologies it looks at ways smart materials respond to stimuli such as electricity pressure temperature magnetism or light state of the art developments in eap based actuation and pneumatics are covered including nanotechnology soft robotics eap considerations for nasa applications and thermal control of satellites control of mirrors using dielectric elastomeric actuators and biomimetic design and function in robotics and prosthetics a detailed analysis of the challenges of smart materials on earth and in space is included with an interview about considerations and training for missions to moon and mars this book is a must read within the smart material and space communities from tech savvy students to industry professionals

## ***Internet of Things 2013-06***

the book aims to provide a broad overview of various topics of the internet of things iot from the research and development priorities to enabling technologies architecture security privacy interoperability and industrial applications it is intended to be a stand alone book in a series that covers the internet of things activities of the ierc internet of things european research cluster from technology to international cooperation and the global state of play the book builds on the ideas put forward by the european research cluster on the internet of things strategic research and innovation agenda and presents views and state of the art results on the challenges facing the research development and deployment of iot at the global level today we see the integration of industrial business and consumer internet which is bringing together the internet of people internet of things internet of energy internet of vehicles internet of media services and enterprises in forming the backbone of the digital economy the digital society and the foundation for the future knowledge and innovation based economy these developments are supporting solutions for the emerging challenges of public health aging population environmental protection and climate change the conservation of energy and scarce materials enhancements to safety and security

and the continuation and growth of economic prosperity penetration of smartphones and advances in nanoelectronics cyber physical systems wireless communication software and cloud computing technology will be the main drivers for iot development the iot contribution is seen in the increased value of information created by the number of interconnections among things and the transformation of the processed information into knowledge shared into the internet of everything the connected devices are part of ecosystems connecting people processes data and things which are communicating in the cloud using the increased storage and computing power while attempting to standardize communication and metadata in this context the next generation of cloud computing technologies will need to be flexible enough to scale autonomously adaptive enough to handle constantly changing connections and resilient enough to stand up to the huge flows of data that will occur in 2025 analysts forecast that there will be six devices per human on the planet which means around 50 billion more connected devices over the next 12 years the internet of things market is connected to this anticipated device growth from industrial machine to machine m2m systems smart meters and wireless sensors internet of things technology will generate new services and new interfaces by creating smart environments and smart spaces with applications ranging from smart cities smart transport buildings energy grid to smart health and life

## ***Robotics, Autonomous Systems and AI for Nonurgent/Nonemergent Healthcare Delivery During and After the COVID-19 Pandemic 2022-07-01***

this volume is the proceedings of the 3rd iee international conference on knowledge innovation and invention 2020 iee ickii 2020 the conference was organized by the iee tainan section sensors council iee tssc the international institute of knowledge innovation and invention iikii and the national university of kaohsiung taiwan and held on august 21 23 2020 in kaohsiung this volume of knowledge innovation on design and culture selected 95 excellent papers from the iee ickii 2020 conference in the topics of innovative design and cultural research and knowledge innovation and invention this proceedings presents the research results based on the interdisciplinary collaboration of social sciences and engineering technologies by international networking in the academic and industrial fields

## **Knowledge Innovation On Design And Culture - Proceedings Of The 3rd Ieee International Conference On Knowledge Innovation And Invention 2020 (Ieee Ickii 2020) 2021-09-24**

this book constitutes the refereed proceedings of the 15th international conference on network and system security nss 2021 held in tianjin china on october 23 2021 the 16 full and 8 short papers presented in this book were carefully reviewed and selected from 62 submissions they focus on theoretical and practical aspects of network and system security such as authentication access control availability integrity privacy confidentiality dependability and sustainability of computer networks and systems

## **Network and System Security 2022-01-04**

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 constitutes the refereed proceedings of 4 workshops held at the 14th ifip wg 12 5 international conference on artificial intelligence applications and innovations aiai 2018 held in rhodes greece in may 2018 the workshops were the workshop on semantics in the deep semantic analytics for big data sedseal 2018 the third workshop on 5g putting intelligence to the network edge 5g pine 2018 the 7th mining humanistic data workshop mhdw 2018 and the workshop on intelligent cloud and iot paradigms in ehealth healthiot 2018 the 19 full papers and 5 short papers presented were carefully reviewed and selected from a total of 53 submissions sedseal accepted 2 full papers out of 5 submissions 5g pine 6 full and one short paper out of 24 mhdw 7 full and 4 short papers out of 15 and healthiot 4 full papers out of 9 the papers cover topics such as ai in 5g and telecommunications ai and e health services ai in 5g networks incremental learning clustering ai in text mining visual data analytics ai in molecular biology dna rna proteins big data analytics internet of things and recommender systems and ai in biomedical applications

## **Artificial Intelligence Applications and Innovations 2018-05-21**

this book provides an overview of current efficiency enhancement and linearization techniques for silicon power amplifier designs it examines the latest state of the art technologies and design techniques to address challenges for rf cellular mobile base stations and rf and mmw wlan applications coverage includes material on current silicon cmos sige rf and mmw power amplifier designs focusing on advantages and disadvantages compared with traditional gaas implementations with this book you will learn the principles of linearization and efficiency improvement techniques the architectures allowing the optimum design of multimode si rf and mmw power amplifiers how to make designs more efficient by employing new design techniques such as linearization and efficiency improvement layout considerations examples of schematic layout simulation and measurement results addresses the problems of high power generation faithful construction of non constant envelope constellations and efficient and well control power radiation from integrated silicon chips demonstrates how silicon technology can solve problems and trade offs of power amplifier design including price size complexity and efficiency written and edited by the top contributors to the field

## **Linearization and Efficiency Enhancement Techniques for Silicon Power Amplifiers 2015-01-07**

this book constitutes the proceedings of the 13th international conference on design science research in information systems and technology desrist 2018 held in june 2018 in chennai india the 24 full papers presented in this volume were carefully reviewed and selected from 96 papers the contributions are organized in topical sections named hci and design design foundations design foundations design in healthcare advances in data science and analytics ict for development designing cybersecurity and design applications

## **Designing for a Digital and Globalized World 2018-05-18**

the industrial electronics handbook second edition industrial communications systems combines traditional and newer more specialized knowledge that helps industrial electronics engineers develop practical solutions for the design and implementation of high power applications embracing the broad technological scope of the field this collection explores fundamental areas including analog and digital circuits electronics electromagnetic machines signal processing and industrial control and communications systems it also facilitates the use of intelligent systems such as neural networks fuzzy systems and evolutionary methods in terms of a hierarchical structure that makes factory control and supervision more efficient by addressing the needs of all production components enhancing its value this fully updated collection presents research and global trends as published in the iee transactions on industrial electronics journal one of the largest and most respected publications in the field modern communication systems in factories use many different and increasingly sophisticated systems to send and receive information industrial communication systems spans the full gamut of concepts that engineers require to maintain a well designed reliable communications system that can ensure successful operation of any production process delving into the subject this volume covers technical principles application specific areas technologies internet programming outlook including trends and expected challenges other volumes in the set fundamentals of industrial electronics power electronics and motor drives control and mechatronics intelligent systems

## ***Industrial Communication Systems 2018-10-03***

spectrum sharing in cognitive radio networks discover the latest advances in spectrum sharing in wireless networks from two internationally recognized experts in the field spectrum sharing in cognitive radio networks towards highly connected environments delivers an in depth and insightful examination of hybrid spectrum access techniques with advanced frame structures designed for efficient spectrum utilization the accomplished authors present the energy and spectrum efficient frameworks used in high demand distributed architectures by relying on the self scheduled medium access control smc mac protocol in cognitive radio networks the book begins with an exploration of the fundamentals of recent advances in spectrum sharing techniques before moving onto advanced frame structures with spectrum accessing approaches and the role of spectrum prediction and spectrum monitoring to eliminate interference the authors also cover spectrum mobility interference and spectrum management for connected environments in substantial detail spectrum sharing in cognitive radio networks towards highly connected environments offers readers a recent and rational theoretical mathematical model of spectrum sharing strategies that can be used for practical simulation of future generation wireless communication technologies it also highlights ongoing trends revealing fresh research outcomes that will be of interest to active researchers in the area readers will also benefit from an inclusive study of connected environments 3gpp releases and the evolution of wireless communication generations with a discussion of advanced frame structures and access strategies in cognitive radio networks a treatment of cognitive radio networks using spectrum prediction and monitoring techniques an analysis of the effects of imperfect spectrum monitoring on cognitive radio networks an exploration of spectrum mobility in cognitive radio networks using spectrum prediction and monitoring techniques an examination of mimo based cr noma communication systems for spectral and interference efficient designs perfect for senior undergraduate and graduate students in electrical and electronics communication engineering programs spectrum sharing in cognitive radio networks towards highly connected environments will also earn a place in the libraries of professional engineers and researchers working in the field whether in private industry government or academia



## ***Spectrum Sharing in Cognitive Radio Networks 2021-05-27***

organic computing has emerged as a challenging vision for future information processing systems its basis is the insight that we will increasingly be surrounded by and depend on large collections of autonomous systems which are equipped with sensors and actuators aware of their environment communicating freely and organising themselves in order to perform actions and services required by the users these networks of intelligent systems surrounding us open fascinating application areas and at the same time bear the problem of their controllability hence we have to construct such systems as robust safe flexible and trustworthy as possible in particular a strong orientation towards human needs as opposed to a pure implementation of the technically possible seems absolutely central the technical systems which can achieve these goals will have to exhibit life like or organic properties organic computing systems adapt dynamically to their current environmental conditions in order to cope with unexpected or undesired events they are self organising self configuring self optimising self healing self protecting self explaining and context aware while offering complementary interfaces for higher level directives with respect to the desired behaviour first steps towards adaptive and self organising computer systems are being undertaken adaptivity reconfigurability emergence of new properties and self organisation are hot topics in a variety of research groups worldwide this book summarises the results of a 6 year priority research program sponsored by the german research foundation dfg addressing these fundamental challenges in the design of organic computing systems it presents and discusses the theoretical foundations of organic computing basic methods and tools learning techniques used in this context architectural patterns and many applications the final outlook shows that in the mean time organic computing ideas have spawned a variety of promising new projects

## ***Organic Computing – A Paradigm Shift for Complex Systems 2011-04-29***

this edited book discusses data analytics and complex communication networks and recommends new methodologies system architectures and other solutions to prevail over the current limitations faced by the field

## ***Handbook of Research on Advances in Data Analytics and Complex Communication Networks 2021***

enrico fermi nobel laureate in physics in 1938 taught at the university of florence just for two academic years 1924 25 and 1925 26 his research activity in these two years saw the publication of the statistics bearing his name the two original 1926 papers by e fermi are reproduced in full in this book which is at the basis of semiconductors and hence of modern electronics this volume is printed for the placement at the school of engineering in florence of an ieee milestone within the ieee global history network program commemorating the event the ieee institute of electrical and electronic engineers is the largest professional association in the world devoted to advancing technological innovation in electrical electronic engineering and related fields

## **Enrico Fermi's IEEE Milestone in Florence 2015-11-19**

this book has brought 24 groups of experts and active researchers around the world together in image processing and analysis video processing and analysis and

communications related processing to present their newest research results exchange latest experiences and insights and explore future directions in these important and rapidly evolving areas it aims at increasing the synergy between academic and industry professionals working in the related field it focuses on the state of the art research in various essential areas related to emerging technologies standards and applications on analysis processing computing and communication of multimedia information the target audience of this book is researchers and engineers as well as graduate students working in various disciplines linked to multimedia analysis processing and communications e g computer vision pattern recognition information technology image processing and artificial intelligence the book is also meant to a broader audience including practicing professionals working in image video applications such as image processing video surveillance multimedia indexing and retrieval and so on we hope that the researchers engineers students and other professionals who read this book would find it informative useful and inspirational toward their own work in one way or another

## **Multimedia Analysis, Processing and Communications 2011-04-11**

the book aims to provide a broad overview of various topics of internet of things from the research innovation and development priorities to enabling technologies nanoelectronics cyber physical systems architecture interoperability and industrial applications it is intended to be a standalone book in a series that covers the internet of things activities of the ierc internet of things european research cluster from technology to international cooperation and the global state of play the book builds on the ideas put forward by the european research cluster on the internet of things strategic research agenda and presents global views and state of the art results

## **Internet of Things Applications - From Research and Innovation to Market Deployment 2022-09-01**

this textbook presents theory and practice in the context of automatic control education it presents the relevant theory in the first eight chapters applying them later on to the control of several real plants each plant is studied following a uniform procedure a the plant s function is described b a mathematical model is obtained c plant construction is explained in such a way that the reader can build his or her own plant to conduct experiments d experiments are conducted to determine the plant s parameters e a controller is designed using the theory discussed in the first eight chapters f practical controller implementation is performed in such a way that the reader can build the controller in practice and g the experimental results are presented moreover the book provides a wealth of exercises and appendices reviewing the foundations of several concepts and techniques in automatic control the control system construction proposed is based on inexpensive easy to use hardware an explicit procedure for obtaining formulas for the oscillation condition and the oscillation frequency of electronic oscillator circuits is demonstrated as well

## **Automatic Control with Experiments 2018-09-28**

the advances in the technology and methodology for human movement capture and analysis over the last decade have been remarkable besides acknowledged approaches for kinematic dynamic and electromyographic emg analysis carried out in the laboratory more recently developed devices such as wearables inertial measurement units ambient sensors and cameras or depth sensors have been adopted on a wide scale furthermore computational intelligence ci methods such as artificial neural networks have recently emerged as promising tools for the development and application of intelligent systems in motion analysis thus the synergy of

classic instrumentation and novel smart devices and techniques has created unique capabilities in the continuous monitoring of motor behaviors in different fields such as clinics sports and ergonomics however real time sensing signal processing human activity recognition and characterization and interpretation of motion metrics and behaviors from sensor data still representing a challenging problem not only in laboratories but also at home and in the community this book addresses open research issues related to the improvement of classic approaches and the development of novel technologies and techniques in the domain of motion analysis in all the various fields of application

## **Recent Advances in Motion Analysis 2021-05-05**

this book features a collection of high quality peer reviewed papers presented at the second international conference on ubiquitous intelligent systems icuis 2022 organized by shree venkateshwara hi tech engineering college tamil nadu india during march 10 11 2022 the book covers topics such as cloud computing mobile computing and networks embedded computing frameworks modeling and analysis of ubiquitous information systems communication networking models big data models and applications ubiquitous information processing systems next generation ubiquitous networks and protocols advanced intelligent systems internet of things wireless communication and storage networks intelligent information retrieval techniques ai based intelligent information visualization techniques cognitive informatics smart automation systems health care informatics and bioinformatics models security and privacy of intelligent information systems and smart distributed information systems

## **Ubiquitous Intelligent Systems 2022-07-25**

research on smart grids has recently focused on the energy monitoring issue with the objective of maximizing the user consumption awareness in building contexts on the one hand and providing utilities with a detailed description of customer habits on the other in particular non intrusive load monitoring nilm the subject of this book represents one of the hottest topics in smart grid applications nilm refers to those techniques aimed at decomposing the consumption aggregated data acquired at a single point of measurement into the diverse consumption profiles of appliances operating in the electrical system under study this book provides a status report on the most promising nilm methods with an overview of the publically available dataset on which the algorithm and experiments are based of the proposed methods those based on the hidden markov model hmm and the deep neural network dnn are the best performing and most interesting from the future improvement point of view one method from each category has been selected and the performance improvements achieved are described comparisons are made between the two reference techniques and pros and cons are considered in addition performance improvements can be achieved when the reactive power component is exploited in addition to the active power consumption trace

## **Machine Learning Approaches to Non-Intrusive Load Monitoring 2019-11-01**

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 2018-05-09***

the three volume proceedings Inai 11051 11053 constitutes the refereed proceedings of the european conference on machine learning and knowledge discovery in databases ecml pkdd 2018 held in dublin ireland in september 2018 the total of 131 regular papers presented in part i and part ii was carefully reviewed and selected from 535 submissions there are 52 papers in the applied data science nectar and demo track the contributions were organized in topical sections named as follows part i adversarial learning anomaly and outlier detection applications classification clustering and unsupervised learning deep learning ensemble methods and evaluation part ii graphs kernel methods learning paradigms matrix and tensor analysis online and active learning pattern and sequence mining probabilistic models and statistical methods recommender systems and transfer learning part iii ads data science applications ads e commerce ads engineering and design ads financial and security ads health ads sensing and positioning nectar track and demo track

## ***Machine Learning and Knowledge Discovery in Databases 2019-01-17***

cyber physical systems a comprehensive guide explores the complete system perspective underlying theories modelling and the applications of cyber physical systems cps it aims to cover all topics ranging from discussion of rudiments of the system efficient management to recent research challenges and issues editors aim to present the book in a self sufficient manner and to achieve this the book has been edited to include all the aspects of cps the book focuses on the concept map of cps including latest technological interventions issues challenges and the integration of cps with iot big data analytics this aims to bring together unique contributions on cyber physical systems research and education with applications in industrial agriculture and medical domains the main aim of the book is to provide a roadmap to the latest advancements to provide optimal solutions in the field of cps features coverage of rudiments of the subject discussion of recent advancements in the associated field considers an audience of diverse domains suitable for students both ug and pg level and researchers in the field of cps this book aims to present the emergence of cyber physical systems in response to revolutionary advancements in iot while discussing the associated challenges it also endeavors to devise efficient models which are competent to address these challenges this book aims to cater to researchers and academicians working in the related field of cps

## **Cyber-Physical Systems 2022-04-24**

this book constitutes the refereed proceedings of the first international conference on persuasive technology for human well being persuasive 2006 the 31 revised full papers presented together with 1 introductory paper are organized in topical sections on psychological principles of persuasive technology persuasive technology theory and modelling design applications and evaluations ethics of persuasive technology persuasive gerontechnology and ambient intelligence and persuasive technology

## **Persuasive Technology 2006-05-05**

this book systematically introduces the bionic nature of force sensing and control the biomechanical principle on mechanism of force generation and control of skeletal muscle and related applications in robotic exoskeleton the book focuses on three main aspects muscle force generation principle and biomechanical model exoskeleton robot technology based on skeletal muscle biomechanical model and sma based bionic skeletal muscle technology this comprehensive and in depth book presents the author s research experience and achievements of many years to readers in an effort to promote academic exchanges in this field about the author yuehong yin received his b e m s and ph d degrees from nanjing university of aeronautics and astronautics nanjing in 1990 1995 and 1997 respectively all in mechanical engineering from december 1997 to december 1999 he was a postdoctoral fellow with zhejiang university hangzhou china where he became an associate professor in july 1999 since december 1999 he has been with the robotics institute shanghai jiao tong university shanghai china where he became a professor and a tenure professor in december 2005 and january 2016 respectively his research interests include robotics force control exoskeleton robot molecular motor artificial limb robotic assembly reconfigurable assembly system and augmented reality dr yin is a fellow of the international academy of production engineering cirp

## **Advanced Technologies for Modeling, Optimization and Control of the Future Distribution Grid** **2022-04-20**

a guide to a multi disciplinary approach that includes perspectives from noted experts in the energy and utilities fields advances in energy systems offers a stellar collection of articles selected from the acclaimed journal wiley interdisciplinary review energy and environment the journal covers all aspects of energy policy science and technology environmental and climate change the book covers a wide range of relevant issues related to the systemic changes for large scale integration of renewable energy as part of the on going energy transition the book addresses smart energy systems technologies flexibility measures recent changes in the marketplace and current policies with contributions from a list of internationally renowned experts the book deals with the hot topic of systems integration for future energy systems and energy transition this important resource contains contributions from noted experts in the field covers a broad range of topics on the topic of renewable energy explores the technical impacts of high shares of wind and solar power offers a review of international smart grid policies includes information on wireless power transmission presents an authoritative view of micro grids contains a wealth of other relevant topics written forenergy planners energy market professionals and technology developers advances in energy systems is an essential guide with contributions from an international panel of experts that addresses the most recent smart energy technologies

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**Biomechanical Principles on Force Generation and Control of Skeletal Muscle and their Applications in Robotic Exoskeleton 2019-09-05**

**Rising Stars in Human-Robot Interaction 2022-08-11**

***Advances in Energy Systems* 2019-02-05**

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