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this springerbrief discusses the rise of the smart grid from the perspective of computing and communications it explains how current and next generation network technology and methodologies help recognize the potential that the smart grid initiative promises chapters provide context on the smart grid before exploring specific challenges related to communication control and energy management topics include control in heterogeneous power supply solutions for backhaul and wide area networks home energy management systems and technologies for smart energy management systems designed for researchers and professionals working on the smart grid communication challenges and solutions in the smart grid offers context and applications for the common issues of this developing technology advanced level students interested in networking and communications engineering will also find the brief valuable how can smart technology open up new design opportunities for the design the execution and the operation of buildings and for the digitalization of construction a hitherto unusual conception of the building as a cybernetic architectural system forms the basis of this integrated design approach the authors architects and engineers with extensive design experience contribute an overview of current technical components of automation and communication systems as well as a summary of relevant laws standards and guidelines six example projects demonstrate completed applications at different scales from a single family residence to office buildings and through to the elbphilharmonie concert hall amply illustrated in text drawings and photos proceedings of the 2013 chinese intelligent automation conference presents selected research papers from the ciac 13 held in yangzhou china the topics include e g adaptive control fuzzy control neural network based control

knowledge based control hybrid intelligent control learning control evolutionary mechanism based control multi sensor integration failure diagnosis and reconfigurable control engineers and researchers from academia industry and government can gain an inside view of new solutions combining ideas from multiple disciplines in the field of intelligent automation zengqi sun and zhidong deng are professors at the department of computer science tsinghua university china this book serves as a single source reference to the state of the art in internet of things iot platforms services tools programming languages and applications in particular the authors focus on iot related requirements such as low power time to market connectivity reliability interoperability security and privacy authors discuss the question of whether we need new iot standardization bodies or initiatives toward a fully connected cyber physical world coverage includes the research outcomes of several current european projects related to iot platforms services apis tools and applications higher demands placed on the security flexibility and convenience of electrical installations combined with the need to minimize energy requirements have led to the development of home and building management systems the knx technology is the result of the pooling of knowledge and experience gained over the last 25 years with the predecessor technologies to knx i e the european installation bus eib the european home system ehs and batibus the skilful application of knx requires sound knowledge of all persons involved training measures are therefore required towards selection of bus devices and installation material fields of application and main applications of the knx bus system selection of the bus topology in view of the construction of the building and the desired functionalities planning of the to be installed bus system installation thereby taking into account the relevant regulations e g lightning protection electromagnetic compatibility etc commissioning and servicing of knx installations the january 2015 edition of the knx basic course documentation gives you an in depth overview of all the above listed points in depth information about security hvac control with knx can be found in the document knx advanced course documentation which is published separately this basic course documentation with successful concluding exam is the basis for knx partnership courses are organised by more than 300 certified training centres around the world this publication presents articles on aging in place assistive technology monitoring and

telehealth transportation and mobility and design the section on assistive technology at represents arguably the most mature and generic aspect of technology and aging except that it can hardly be regarded really as a specific discipline any longer assistive devices and systems command an expansive gamut of technological and engineering specialties drawing upon mechanical engineering and industrial design at one end of the field and cybernetic systems engineering and brain computer user interfaces at the other the largest section in the book on monitoring and telehealth reveals novel applications of advanced pattern recognition techniques some of which have up to now found roles primarily in the military process engineering and financial sectors transportation and mobility still represents by far the largest and most commercially lucrative market segment of technology for seniors there is however a clear trend towards synthesis of information and communication technologies ict and mobility technologies which is embodied in the latest developments of automatic collision avoidance and full or semi autonomous navigation functions in powered mobility devices the last section is dedicated to design issues it is proposed that designing for the special needs market before making a design as inclusive as possible to the mainstream market is a viable alternative to the currently accepted notion of inclusive design provided that aesthetics are appropriately addressed to conclude we see a social shift from institutional to home based care in which information communication technology based solutions now afford the possibility of aging in place for the many thousands of people having mild to moderate cognitive impairment las especificaciones knx cubren todos los aspectos técnicos del estándar knx desde la primera toma de contacto con la tecnología knx la especificación del sistema reglas de certificación y ensayos así como descripciones de las aplicaciones los diferentes tomos y secciones están claramente separados y están dirigidos a los diversos departamentos de una empresa water infrastructure is an essential element in water management together with institutions policies and regulation it provides basic services to growing populations especially in developing countries where much of the growth is taking place in the asia pacific region for instance populations are growing not only in size but also in affluence straining further the existing infrastructure and demanding urgently the development of a new one while 79 of total water use in asia occurs in agriculture the fastest increases in demand

are emanating from industry and from urban areas this trend is a natural consequence of the fastest industrialization and urbanization process in history by 2030 more than 55 of asia s population will live in urban areas an increase of 1.1 billion people nevertheless water infrastructure is of concern not only in the global south but also in the north where much of the drinking water infrastructure needs upgrading or replacement a significant undertaking as infrastructure is more than a hundred years old in many cases the american water works association estimates that changing all of the water pipes in the united states would cost more than usd 1 trillion in this book in depth case studies on water infrastructure challenges and policy solutions are presented from different parts of the world this book was published as a special issue of the international journal of water resources development future buildings require not only energy efficiency but also proper building automation and control system functionalities in order to respond to the needs of occupants and energy grids these development paths require a focus on occupant needs such as good indoor climate easy operability and monitoring another area to be tackled is energy flexibility which is needed to make buildings responsive to the price signals of electricity grids with increasing amounts of fluctuating renewable energy generation installed both in central grids and at building sites this special issue is dedicated to hvac systems load shifting indoor climate and energy and ventilation performance analyses in buildings all these topics are important for improving the energy performance of new and renovated buildings within the roadmap of low energy and nearly zero energy buildings to improve energy performance and at the same time occupant comfort and wellbeing new technical solutions are required occupancy patterns and recognition intelligent building management demand response and performance of heating cooling and ventilation systems are some common keywords in the articles of this special issue contributing to future highly performing buildings with reliable operation modern buildings are increasingly equipped with actuators and sensors communication visualization and control systems this textbook provides an overview of industrial communication systems and stimulates a basic understanding of network and bus systems for the automation of buildings after an introduction to eib knx lon und bacnet technologies the authors illustrate how these systems can be utilized for specific applications like air conditioning or

illumination this book assumes only a basic knowledge of mathematics and thanks to its simple explanations and many examples is ideal for students and professional engineers who require practical solutions this book constitutes the refereed proceedings of the first international conference on information and communication technology for the fight against global warming ict glow 2011 held in toulouse france in august 2011 the 16 revised papers presented were carefully reviewed and selected from 24 submissions they address the following topics parallel computing ict for transportation cloud and pervasive computing measurement and control and storage el libro responde a preguntas tan básicas como qué es domótica qué es knx y aclara de forma sencilla conceptos más avanzados como los dispositivos que son necesarios en este tipo de instalaciones cómo se conectan y qué normativa las regula un último capítulo explica de forma práctica cómo se hace una instalación e integración domótica con la tecnología knx detallando todos los pasos necesarios desde la elaboración de un presupuesto y documentación requerida hasta la puesta en marcha de la propia instalación the book describes a real domotic system made from zero working since 8 years it provides electric schemes home automation components to utilize and software tailor made for ios and android moreover an architecture using amx components is considered the core of system is written in c for linux environment and customized for one of the most powerful single board computer beagle bone black this book is not only for electricians is not only for programmers is not only for hobbyists is not only for architects is not only for engineers it is for people having a little chunk of all these capabilities it s a cross discipline book in particular a great part of the book is dedicated to code development android and ios code improvements bartolomeo sorrentino chief technology officer at softphone srl italy this special issue presents the recent advances in sensor technologies for smart homes including fiber bragg grating fbg sensors for detecting the presence and number of occupants the internet of things for monitoring co2 concentration and designing a novel eye tracking system for monitoring and controlling a smart home and infrared thermal sensors for fall detection such new explorations are pushing the boundary of sensing technologies and thus will have more profound implications for the future smart home advanced machine learning and data mining algorithms have been proposed to address sensor failure

appliance identification and human activity recognition in a home environment these results will enable a promising sustainable deployment of sensing technologies a novel multi agent gamification system is proposed for managing tasks between household members and between families which demonstrate another dimension of future smart home application this special issue concludes with a review on sensors for human activity recognition this work paves the roadmap for deploying smart home systems in different socioeconomic contexts the whole special issue has significantly helped to shape our understanding of the strength implications and barriers of deploying long term sustainable sensor technologies for smart homes distributed systems employed in critical infrastructures must fulfill dependability timeliness and performance specifications since these systems most often operate in an unpredictable environment their design and maintenance require quantitative evaluation of deterministic and probabilistic timed models this need gave birth to an abundant literature devoted to formal modeling languages combined with analytical and simulative solution techniques the aim of the book is to provide an overview of techniques and methodologies dealing with such specific issues in the context of distributed systems and covering aspects such as performance evaluation reliability availability energy efficiency scalability and sustainability specifically techniques for checking and verifying if and how a distributed system satisfies the requirements as well as how to properly evaluate non functional aspects or how to optimize the overall behavior of the system are all discussed in the book the scope has been selected to provide a thorough coverage on issues models and techniques relating to validation evaluation and optimization of distributed systems the key objective of this book is to help to bridge the gaps between modeling theory and the practice in distributed systems through specific examples telecommunication services provides a holistic approach to understand telecommunications systems by addressing the emergence and domination of new digital services consumer and economic dynamics and the creation of content by service providers includes services underlying technologies and internal capabilities for social network advertising covers market dynamics that determine the successes and failures of service offerings discusses the impact of smartphones iphone launch on the telecommunications and mobile

device industry written by a team of experts at the forefront of the cyber physical systems cps revolution this book provides an in depth look at security and privacy two of the most critical challenges facing both the cps research and development community and ict professionals it explores in depth the key technical social and legal issues at stake and it provides readers with the information they need to advance research and development in this exciting area cyber physical systems cps are engineered systems that are built from and depend upon the seamless integration of computational algorithms and physical components advances in cps will enable capability adaptability scalability resiliency safety security and usability far in excess of what today s simple embedded systems can provide just as the internet revolutionized the way we interact with information cps technology has already begun to transform the way people interact with engineered systems in the years ahead smart cps will drive innovation and competition across industry sectors from agriculture energy and transportation to architecture healthcare and manufacturing a priceless source of practical information and inspiration security and privacy in cyber physical systems foundations principles and applications is certain to have a profound impact on ongoing r d and education at the confluence of security privacy and cps this book is aimed at serving researchers engineers scientists and engineering graduate and phd students of engineering and physical science together with individuals interested in engineering and science this book focuses on the application of engineering methods to complex systems including transportation building and manufacturing with approaches representing a wide variety of disciplines of engineering and science throughout the book great emphases are placed on engineering applications of complex systems as well as the methodologies of automation including artificial intelligence automated and intelligent control energy analysis energy modelling energy management and optimised energy efficiency the significant impact of recent studies that have been selected for presentation are of high interest in engineering complex systems an attempt has been made to expose the reading audience of engineers and researchers to a broad range of theoretical and practical topics the topics contained in the present book are of specific interest to engineers who are seeking expertise in transportation building and manufacturing technologies as well as mathematical

modelling of complex systems engineering approaches to engineering complex problems automation via artificial intelligence methods automated and intelligent control and energy systems the primary audience of this book are researchers graduate students and engineers in mechanical engineering control engineering computer engineering electrical engineering and science disciplines in particular the book can be used for training graduate and phd students as well as senior undergraduate students to enhance their knowledge by taking a graduate or advanced undergraduate course in the areas of complex systems control systems energy systems and engineering applications the covered research topics are also of interest to engineers and academia who are seeking to expand their expertise in these areas although the information and communication technology ict industry accounted for only 2 percent of global greenhouse gas emissions in 2007 the explosive increase in data traffic brought about by a rapidly growing user base of more than a billion wireless subscribers is expected to nearly double that number by 2020 it is clear that now is the time to rethink how we design and build our networks green networking and communications ict for sustainability brings together leading academic and industrial researchers from around the world to discuss emerging developments in energy efficient networking and communications it covers the spectrum of research subjects including methodologies and architectures for energy efficiency energy efficient protocols and networks energy management smart grid communications and communication technologies for green solutions examines foraging inspired radio communication energy management for green multi radio networks considers a cross layer approach to the design of energy efficient wireless access networks investigates the interplay between cooperative device to device communications and green lte cellular networks considers smart grid energy procurement for green lte cellular networks details smart grid networking protocols and standards considering the spectrum of energy efficient network components and approaches for reducing power consumption the book is organized into three sections energy efficiency and management in wireless networks cellular networks and smart grids it addresses many open research challenges regarding energy efficiency for it and for wireless sensor networks including mobile and wireless access networks broadband access networks home networks vehicular networks intelligent future

wireless networks and smart grids it also examines emerging standards for energy efficient protocols since ict technologies touch on nearly all sectors of the economy the concepts presented in this text offer you the opportunity to make a substantial contribution to the reduction of global greenhouse gas emissions knx is the 1 global standard for home and building automation with decades of experience thousands of products from hundreds of different manufacturers with a presence on five continents and thousands of professionals certified as knx partners now the immediate question is what does it take for a knx partner to be successful this question has been on the minds of every person interested in home and building automation for years when going out into the real world professionals realize that the controlled environment of laboratories or educational institutions is far from reality they realize that most of the information they studied in expensive courses and long books is of little practical use to them this is why the vast majority give up on the road or stagnate being a shadow of what could become there are different formal courses that must be taken to become certified in home automation and professional automation however what it really takes to be successful in home and building automation with knx is not found in traditional training and usually it is not as complicated as you think it is this book provides in a pleasant and clear way the necessary tools to be successful in knx in addition to the theoretical concepts it has condensed all the practical information that escapes in most formal courses it also brings together the mistakes of many people so that you don't make them and the knowledge developed by others over the years so that you can incorporate it thus taking a shortcut to excellence here you will also learn to create technology not only to be a consumer of it like the vast majority of people so if you ever want to be a manufacturer of products this is the best way you can take to start opening your mind finally this book gives you a projection of the sector of home and building automation that will allow you to be at the forefront for a few more years this book gives you all the complementary technical material you can request it to me on my instagram startupiando this book gives a thorough explanation of standardization its processes its life cycle and its related organization on a national regional and global level the book provides readers with an insight in the interaction cycle between standardization organizations government industry and consumers the readers can gain a clear insight

to standardization and innovation process standards and innovations life cycle and the related organizations with all presented material in the field of information and communications technologies the book introduces the reader to understand perpetual play of standards and innovation cycle as the basis for the modern world ambient intelligence ami is a recent paradigm emerging from artificial intelligence ai where computers are used as proactive tools assisting people with their day to day activities making everyone's life more comfortable another main concern of ami originates from the human computer interaction domain and focuses on offering ways to interact with systems in a more natural way by means user friendly interfaces this field is evolving quickly as can be witnessed by the emerging natural language and gesture based types of interaction the inclusion of computational power and communication technologies in everyday objects is growing and their embedding into our environments should be as invisible as possible in order for ami to be successful human interaction with computing power and embedded systems in the surroundings should be smooth and happen without people actually noticing it the only awareness people should have arises from ami more safety comfort and wellbeing emerging in a natural and inherent way isami is the international symposium on ambient intelligence aiming to bring together researchers from various disciplines that constitute the scientific field of ambient intelligence to present and discuss the latest results new ideas projects and lessons learned if we had computers that knew everything there was to know about things using data they gathered without any help from us we would be able to track and count everything and greatly reduce waste loss and cost we would know when things needed replacing repairing or recalling and whether they were fresh or past their best the internet of things has the potential to change the world just as the internet did maybe even more so kevin ashton originator of the term internet of things an examination of the concept and unimagined potential unleashed by the internet of things iot with ipv6 and mipv6 what is the internet of things how can it help my organization what is the cost of deploying such a system what are the security implications building the internet of things with ipv6 and mipv6 the evolving world of m2m communications answers these questions and many more this essential book explains the concept and potential that the iot presents from mobile applications that allow home appliances to be

programmed remotely to solutions in manufacturing and energy conservation it features a tutorial for implementing the iot using ipv6 and mobile ipv6 and offers complete chapter coverage that explains what is the internet of things internet of things definitions and frameworks internet of things application examples fundamental iot mechanisms and key technologies evolving iot standards layer 1 2 connectivity wireless technologies for the iot layer 3 connectivity ipv6 technologies for the iot ipv6 over low power wpan 6lowpan easily accessible applicable and not overly technical building the internet of things with ipv6 and mipv6 is an important resource for internet and isp providers telecommunications companies wireless providers logistics professionals and engineers in equipment development as well as graduate students in computer science and computer engineering courses this second edition of power line communications will show some adjustments in content including new material on plc for home and industry plc for multimedia plc for smart grid and plc for vehicles additional chapters include coverage of channel characterization electromagnetic compatibility coupling and digital transmission techniques this book will provide the reader with a wide coverage of the major developments within the field with contributions from some of the most active researchers on plc the book brings together a wealth of international experts on specific plc topics this book aims to provide a broad overview of various topics of internet of things iot ranging from research innovation and development priorities to enabling technologies nanoelectronics cyber physical systems architecture interoperability and industrial applications all this is happening in a global context building towards intelligent interconnected decision making as an essential driver for new growth and co competition across a wider set of markets 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 research to technological innovation validation and deployment 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 global views and state of the art results on the challenges facing the research innovation development and deployment of iot in future years the concept of iot could disrupt consumer and industrial product markets generating new revenues and serving as a growth driver for

semiconductor networking equipment and service provider end markets globally this will create new application and product end markets change the value chain of companies that creates the iot technology and deploy it in various end sectors while impacting the business models of semiconductor software device communication and service provider stakeholders the proliferation of intelligent devices at the edge of the network with the introduction of embedded software and app driven hardware into manufactured devices and the ability through embedded software hardware developments to monetize those device functions and features by offering novel solutions could generate completely new types of revenue streams intelligent and iot devices leverage software software licensing entitlement management and internet connectivity in ways that address many of the societal challenges that we will face in the next decade the objective of this textbook is to introduce students and professionals to fundamental principles and techniques and emerging technologies in energy informatics and the digitalization of power markets and systems the book covers such areas as smart grids and artificial intelligence ai and distributed ledger technology dlt with a focus on information and communication technologies ict deployed to modernize the electric energy infrastructure it also provides an overview of the smart grid and its main components smart grid applications at transmission distribution and customer level network requirements with communications technologies and standards and protocols in addition the book addresses emerging technologies and trends in next generation power systems i e energy informatics such as digital green shift energy cyber physical social systems e cpss energy iot energy blockchain and advanced optimization future aspects of digitalized power markets and systems will be discussed with real world energy informatics projects the book is designed to be a core text in upper undergraduate and graduate courses such as introduction to smart grids digitalization of power systems and advanced power system topics in energy informatics this two volume set Inicst 335 and 336 constitutes the post conference proceedings of the 16th international conference on security and privacy in communication networks securecomm 2020 held in washington dc usa in october 2020 the conference was held virtually due to covid 19 pandemic the 60 full papers were carefully reviewed and selected from 120 submissions the papers focus on the latest scientific research results

in security and privacy in wired mobile hybrid and ad hoc networks in iot technologies in cyber physical systems in next generation communication systems in web and systems security and in pervasive and ubiquitous computing this book constitutes the proceedings of the third international conference on human aspects of information security privacy and trust has 2015 held as part of the 17th international conference on human computer interaction hci 2015 held in los angeles ca usa in august 2015 and received a total of 4843 submissions of which 1462 papers and 246 posters were accepted for publication after a careful reviewing process these papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems the papers thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas the 62 papers presented in the has 2015 proceedings are organized in topical sections as follows authentication cybersecurity privacy security and user behavior security in social media and smart technologies and security technologies featuring contributions from major technology vendors industry consortia and government and private research establishments the industrial communication technology handbook second edition provides comprehensive and authoritative coverage of wire and wireless based specialized communication networks used in plant and factory automation automotive applications avionics building automation energy and power systems train applications and more new to the second edition 46 brand new chapters and 21 substantially revised chapters inclusion of the latest most significant developments in specialized communication technologies and systems addition of new application domains for specialized networks the industrial communication technology handbook second edition supplies readers with a thorough understanding of the application specific requirements for communication services and their supporting technologies it is useful to a broad spectrum of professionals involved in the conception design development standardization and use of specialized communication networks as well as academic institutions engaged in engineering education and vocational training an authoritative and comprehensive guide to managing energy conservation in infrastructures energy conservation in residential commercial and industrial facilities offers an essential guide to the business models and

engineering design frameworks for the implementation of energy conservation in infrastructures the presented models of both physical and technological systems can be applied to a wide range of structures such as homes hotels public facilities industrial facilities transportation and water energy supply systems the authors noted experts in the field explore the key performance indicators that are used to evaluate energy conservation strategies and the energy supply scenarios as part of the design and operation of energy systems in infrastructures the text is based on a systems approach that demonstrates the effective management of building energy knowledge and supports the simulation evaluation and optimization of several building energy conservation scenarios in addition the authors explore new methods of developing energy semantic network esn superstructures energy conservation optimization techniques and risk based life cycle assessments this important text defines the most effective ways to model the infrastructure of physical and technological systems includes information on the most widely used techniques in the validation and calibration of building energy simulation offers a discussion of the sources quantification and reduction of uncertainty presents a number of efficient energy conservation strategies in infrastructure systems including hvac lighting appliances transportation and industrial facilities describes illustrative case studies to demonstrate the proposed energy conservation framework practices methods engineering designs control and technologies written for students studying energy conservation as well as engineers designing the next generation of buildings energy conservation in residential commercial and industrial facilities offers a wide ranging guide to the effective management of energy conservation in infrastructures industrial electronics systems govern so many different functions that vary in complexity from the operation of relatively simple applications such as electric motors to that of more complicated machines and systems including robots and entire fabrication processes the industrial electronics handbook second edition combines traditional and new 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 higher demands placed on the security flexibility and convenience of electrical installations combined with the need to minimize energy requirements have led to the development of home and building management systems the knx technology is the result of the pooling of knowledge and experience gained over the last 24 years with the predecessor technologies to knx i e the european installation bus eib the european home system ehs and batibus the skilful application of knx requires sound knowledge of all persons involved training measures are therefore required towards selection of bus devices and installation material fields of application and main applications of the knx bus system selection of the bus topology in view of the construction of the building and the desired functionalities planning of the to be installed bus system installation thereby taking into account the relevant regulations e g lightning protection electromagnetic compatibility etc commissioning and servicing of knx installations the november 2013 edition of the knx advanced course documentation gives you an in depth overview of topics such as hvac control with knx security lighting control interworking in depth information about knx telegram knx topology can be found in the

document knx basic course documentation which is published separately this basic course documentation with successful concluding exam is the basis for knx partnership courses are organised by more than 280 certified training centres around the world addresses an emerging shift in developing countries the authors and contributors of ambient assisted living have recognized that the demographic profile is changing in many developing countries and have factored in an inversion of the demographic pyramid the technology of ambient assisted living aal supports the elderly and disabled in their daily routines to allow for safe and independent living for as long as possible dedicated to ambient intelligence electronic environments that are sensitive and responsive to the presence of people ambient assisted living highlights the technologies that center on the needs of these special interest groups such as the elderly or people with disabilities beneficial to students practitioners and users of ambient assisted living aal this text compiles scattered information on the subject outlines the most important and significant work in related literature and covers the latest hardware and software for ergonomic design pertaining to aal from inception to implementation the text assesses what has been produced and researched so far and looks for trends and clues for the future it reviews literature on aal published since 2007 and describes the main features and areas of products or systems that interlink and improve new or existing technologies and systems this text provides extensive coverage of the applications software and information management for aal contains an overview of the concepts related to aal includes a comprehensive review of the state of the art on pervasive and mobile health m health applications describes a set of projects and work with scientific relevance in aal introduces a framework focused on the monitoring and assistance of elderly persons living alone discusses a prospective study on technological systems for people with cognitive disabilities ambient assisted living highlights technologies that adapt to the user rather than the user adapting to the technology this text proposes technologies that can enable assisted persons to live independently for longer and reduce the need for long term care an all in one reference to the major home area networking building automation and ami protocols including 802 15 4 over radio or plc 6lowpan rpl zigbee 1 0 and smart energy 2 0 zwave lon bacnet knx modbus mbus c 12 and dlms cosem and the new etsi m2m system level

standard in depth coverage of smart grid and ev charging use cases this book describes the home area networking building automation and ami protocols and their evolution towards open protocols based on ip such as 6lowpan and etsi m2m the authors discuss the approach taken by service providers to interconnect the protocols and solve the challenge of massive scalability of machine to machine communication for mission critical applications based on the next generation machine to machine etsi m2m architecture the authors demonstrate using the example of the smartgrid use case how the next generation utilities by interconnecting and activating our physical environment will be able to deliver more energy notably for electric vehicles with less impact on our natural resources key features offers a comprehensive overview of major existing m2m and ami protocols covers the system aspects of large scale m2m and smart grid applications focuses on system level architecture interworking and nationwide use cases explores recent emerging technologies 6lowpan zigbee se 2 0 and etsi m2m and for existing technologies covers recent developments related to interworking relates zigbee to the issue of smartgrid in the more general context of carrier grade m2m applications illustrates the benefits of the smartgrid concept based on real examples including business cases this book will be a valuable guide for project managers working on smartgrid m2m telecommunications and utility projects system engineers and developers networking companies and home automation companies it will also be of use to senior academic researchers students and policy makers and regulators

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