

Free ebook Broadband optical access networks and fiber to the home systems technologies and deployment strategies [PDF]

this book constitutes the proceedings of the 4th kes international symposium on agent and multi agent systems kes amsta 2010 held in june 2010 in gdynia poland the discussed field is concerned with the development and analysis of ai based problem solving and control architectures for both single agent and multiple agent systems only 83 papers were selected for publication in both volumes and focus on topics such as multi agent systems design and implementation negotiations and social issues services and semantic cooperation coordination and teamwork agent based modeling simulation and decision making multi agent applications management and e business mobile agents and robots and machine learning smart homes are intelligent environments that interact dynamically and respond readily in an adaptive manner to the needs of the occupants and changes in the ambient conditions the realization of systems that support the smart homes concept requires integration of technologies from different fields among the challenges that the designers face is to make all the components of the system interact in a seamless reliable and secure manner another major challenge is to design the smart home in a way that takes into account the way humans live and interact this later aspect requires input from the humanities and social sciences fields the need for input from diverse fields of knowledge reflects the multidisciplinary nature of the research and development effort required to realize smart homes that are acceptable to the general public the applications that can be supported by a smart home are very wide and their degree of sophistication depends on the underlying technology used some of the application areas include monitoring and control of appliances security telemedicine entertainment location based services care for children and the elderly etc this book consists of eleven chapters that cover various aspects of smart home systems this book reports on the second congress organised by tide technology initiative for disabled and elderly people a community programme dealing with subjects that are nowadays fully part of the european union s fourth framework programme of research technological development and demonstrations the books covers three major areas the r d activities and the effectiveness of assistive technology products and services dealing with selected factors of paramount importance for the harmonious progress of the at market and related services in europe social legal and economic factors information and service delivery industrial interaction co operation and transfer market issues and technology trends advanced research and development projects and methodological innovations other areas are multimedia virtual reality sensors alternative displays augmentative and alternative communication hearing and speech orientation and navigation robotics electronic documents intelligent environments telecommunications and broadcasting and gesture analysis drawing on the authors combined experience of more than 30 years advanced onsite wastewater systems technologies explores use of these technologies on a wide scale basis to solve the problems associated with conventional septic tank and drain field systems the authors discuss a regulatory and management infrastructure for ensuring long term rel this book constitutes the refereed proceedings of the first international symposium on agent and multi agent systems technologies and applications kes amsta 2007 held in wroclaw poland in may june 2007 coverage includes agent oriented applications mobility aspects of agent systems agents for network management agent approaches to robotic systems as well as intelligent and secure agents for digital content management following from the very successful first kes symposium on agent and multi agent systems technologies and applications kes amsta 2007 held in wroclaw poland 31 may 1 june 2007 the second event in the kes amsta symposium series kes amsta 2008 was held in incheon korea march 26 28 2008 the symposium was organized by the school of computer and information engineering inha university kes international and the kes focus group on agent and mul agent systems the kes amsta symposium series is a sub series of the kes conference series the aim of the symposium was to provide an international forum for scientific research into the technologies and applications of agent and multi agent systems agent and multi agent systems are related to the modern software which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems a key development in the field of agent and multi agent systems has been the specification of agent communication languages and formalization of ontologies agent communication languages are intended to provide standard declarative mechanisms for agents to communicate knowledge and make requests of each other whereas ontologies are intended for conceptualization of the knowledge domain the symposium attracted a very large number of scientists and practitioners who submitted their papers for nine main tracks concerning the methodology and applications of agent and multi agent systems a doctoral track and two special sessions broadband optical access and fiber to the home ftth will provide the ultimate broadband service capabilities compared with the currently well deployed broadband access technologies of adsl asymmetric digital subscriber line and cable modems optical broadband access with fiber to the user s home will cater for much higher speed access for new services broadband optical access networks and fiber to the home presents a comprehensive technical overview of key technologies and deployment strategies for optical broadband access networks and emerging new broadband services the authors discuss network design considerations new services deployment trends and operational experiences while explaining the current situation and providing insights into future broadband access technologies and services broadband optical access networks and fiber to the home offers a comprehensive up to date introduction to new developments in broadband access network technologies and services examines the impact of research and development in photonics technologies on broadband access and ftth covers adsl vdsl with fttc fiber to the curb cable modem over hfc hybrid fiber coax and gigabit ethernet discusses the roles of broadband wireless lan and integrated

ftth wireless broadband access as well as broadband home networks provides a global view of broadband network development presenting different technical and system deployment approaches and strategic considerations for comparison gives insight into the worldwide broadband competition and the future of this technology broadband optical access networks and fiber to the home will be an invaluable resource for engineers in research and development network planners business managers consultants as well as analysts and educators for a better understanding of the future of broadband in the field of telecommunications data communications and broadband multimedia service industries smart homes are intelligent environments that interact dynamically and respond readily in an adaptive manner to the needs of the occupants and changes in the ambient conditions the realization of systems that support the smart homes concept requires integration of technologies from different fields among the challenges that the designers face is to make all the components of the system interact in a seamless reliable and secure manner another major challenge is to design the smart home in a way that takes into account the way humans live and interact this later aspect requires input from the humanities and social sciences fields the need for input from diverse fields of knowledge reflects the multidisciplinary nature of the research and development effort required to realize smart homes that are acceptable to the general public the applications that can be supported by a smart home are very wide and their degree of sophistication depends on the underlying technology used some of the application areas include monitoring and control of appliances security telemedicine entertainment location based services care for children and the elderly etc this book consists of eleven chapters that cover various aspects of smart home systems the fourth international conference on signal image technology internet based systems sitis 2008 has been successfully held during the period 30th november to 3rd of december of the year 2008 in bali indonesia the track based information technologies distributed systems wids is one of the four tracks of the conference the track is devoted to emerging and novel concepts architectures and methodologies for creating an interconnected world in which information can be exchanged easily tasks can be processed collaboratively and communities of users with similar interests can be formed while addressing security threats that are present more than ever before the track has attracted a large number of submissions only fifteen papers have been accepted with acceptance rate 27 after the successful presentations of the papers during the conference the track chairs have agreed with atlantis publisher to publish the extended versions of the papers in a book each paper has been extended with a minimum of 30 new materials from its original conference manuscript this book contains these extended versions as chapters after a second round of reviews and improvement the book is an excellent resource of information to researchers and it is based on four themes the first theme is on advances in ad hoc and routing protocols the second theme focuses on the latest techniques and methods on intelligent systems the third theme is a latest trend in security and policies and the last theme is applications of algorithms design methodologies on web based systems this book presents select peer reviewed proceedings of the international conference on frontiers in smart systems technologies icsst 2019 it focuses on latest research and cutting edge technologies in smart systems and intelligent autonomous systems with advanced functionality comprising topics related to diverse aspects of smart technologies such as high security reliability miniaturization energy consumption and intelligent data processing the book contains contributions from academics as well as industry given the range of the topics covered this book will prove useful for students researchers and professionals alike this book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 15th international kes conference on agents and multi agent systems technologies and applications kes amsta 2021 being held as a virtual conference in june 14 16 2021 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy this book introduces the concept of the wise home whilst smart homes focus on automation technologies forcing users to deal with complex and incomprehensible control and programming procedures the wise home is different by going beyond intelligence or smartness the wise home puts technology in the background and supports explicit enhanced user experience as well as implicit artificial intelligence interaction adequate to the end user's needs the theoretical basis of the wise home is explored and examples for its application for future living are presented based on empirical studies and field work carried out by the author principles of hci and the meaning of the home from differing scientific perspective are discussed and a research model based on the concept of user experience ux and iterations is introduced this has resulted in field deployment guides being produced through a systematic development process the future home is wise not smart will be essential reading to home system developers designers and researchers responsible for smart home deployment or ambient assisted living aal who will get insights on how to follow a novel approach in developing and adapting smart home systems to their users needs students with an interest in software design for pervasive systems will benefit by receiving information on how to develop and customise systems for the specific needs of living environments this book constitutes the proceedings of the 7th international conference on decision support systems technologies icsdst 2021 held during may 26 28 2021 the conference was planned to take place in loughborough uk and changed to an online format due to the covid 19 pandemic the ewg dss series of international conference on decision support system technology icsdst is planned to consolidate the tradition of annual events organized by the ewg dss in offering a platform for european and international dss communities comprising the academic and industrial sectors to present state of the art dss research and developments to discuss current challenges that surround decision making processes to exchange ideas about realistic and innovative solutions and to co develop potential business opportunities the main aim of this year's conference is to investigate the role dss and related technologies can play in mitigating the impact of pandemics and post crisis recovery the 10 papers presented in this volume were carefully reviewed and selected from 44 submissions they were organized in two topical sections named multiple criteria approaches and advances in decision support systems

technologies and methods this book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing which were originally presented at the 13th international kes conference on agents and multi agent systems technologies and applications kes amsta 2019 held june 17 19 2019 at st george s bay st julians malta today s economy is driven by technologies and knowledge digital technologies can free shift and multiply choices and often intrude on the territory of other industries by providing new ways of conducting business operations and creating value for customers and companies as such the book covers topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy the research presented is of value to researchers and industrial practitioners working in the fields of artificial intelligence collective computational intelligence innovative business models the new digital and knowledge economy and in particular agent and multi agent systems technologies tools and applications this book highlights new trends and challenges in agent systems and new digital and knowledge economy research and includes 34 papers on areas such as intelligent agent interaction and collaboration modeling simulation and mobile agents agent communication and social networks business informatics design and implementation of intelligent agents and multi agent systems these papers were presented at the 12th international kes conference on agents and multi agent systems technologies and applications kes amsta 2018 held on australia s gold coast the modern economy is driven by technologies and knowledge digital technologies can free shift and multiply choices often intruding on the space of other industries by providing new ways of conducting business operations and creating values for customers and companies the book addresses topics that contribute to the modern digital economy including software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing which contribute to the modern digital economy the results presented are of theoretical and practical value to researchers and industrial practitioners working in the fields of artificial intelligence collective computational intelligence innovative business models new digital and knowledge economy and in particular agent and multi agent systems technologies tools and applications the book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 14th international kes conference on agents and multi agent systems technologies and applications kes amsta 2020 being held as a virtual conference in june 17 19 2020 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy this book gathers papers that are centered on the theory and practice of a wide variety of advanced technologies they cover the latest developments in computing networking information technology robotics complex systems communications energy mechanical engineering civil engineering geodesy and other subjects these papers were selected for presentation at the 12th annual conference days of the bosnian herzegovinian american academy of arts and sciences bhaaas which was scheduled to be held in mostar bosnia and herzegovina in june 2020 but was postponed due to the coronavirus pandemic however in light of the high quality of the submissions bhaaas technical and natural sciences division decided to create this special book despite the postponement the editors would like to extend their special thanks to all the chairs of the planned symposia for their dedicated work in the production of this book jasmin kevrčić zerina mašetić dželila mehanović computer science anes kazagić hajrudin džafo izet smajević mechanical engineering tarik uzunović asif Šabanović jasmin kevrčić mechatronics robotics and embedded systems mirza Šarić tarik hubana maja muftić dedović advanced electrical power systems mirza pozder naida ademović medžida mulić civil engineering and geodesy adnan mujezinović muris torlak computer modeling and simulations for engineering applications and aljo mujčić edin mujčić information and communication technologies the book contains peer reviewed proceedings of the international conference on emergent converging technologies and biomedical systems 2021 it includes papers on wireless multimedia networks green wireless networks electric vehicles biomedical signal processing and instrumentation wearable sensors for health care monitoring biomedical imaging bio materials modeling and simulation in medicine biomedical and health informatics the book will serve as a useful guide for educators researchers and developers working in the area of signal processing imaging computing instrumentation artificial intelligence and their related applications this book will also provide support and aid to the researchers involved in designing the latest advancements in healthcare technologies increased competition in the global marketplace has created enormous pressure on system implementation particularly in the field of marketing systems thinking and process dynamics for marketing systems technologies and applications for decision management describes a holistic approach to monitoring evaluating and applying appropriate marketing strategies and understanding the competition and its future implication on the business of a company as complexities multiply the scientific concept of systems thinking and analyzing process dynamics explained in this publication allows marketing firms succeed the critical issues facing firms today are presented in a thoroughly modern context laying the foundation for a bright future this book focuses on future markets for broadband products and services as well as the infrastructure under development that is intended to make those markets more readily attainable and manageable but it also takes on a more ambitious agenda its analysis shows how advanced technologies are facilitating the transition to a new world information and economic order in which much larger percentages of end users have a greater chance of getting what they want smart homes are intelligent environments that interact dynamically and respond readily in an adaptive manner to the needs of the occupants and changes in the ambient conditions the realization of systems that support the smart homes concept requires integration of technologies from different fields among the challenges that the designers face is to make all the components of the system interact in a

seamless reliable and secure manner another major challenge is to design the smart home in a way that takes into account the way humans live and interact this later aspect requires input from the humanities and social sciences fields the need for input from diverse fields of knowledge reflects the multidisciplinary nature of the research and development effort required to realize smart homes that are acceptable to the general public the applications that can be supported by a smart home are very wide and their degree of sophistication depends on the underlying technology used some of the application areas include monitoring and control of appliances security telemedicine entertainment location based services care for children and the elderly etc this book consists of eleven chapters that cover various aspects of smart home systems this book provides explanations of concepts processes and acronyms related to different areas issues and trends in various areas of wireless technologies for ambient assisted living and healthcare focusing on emerging wireless technologies and innovative wireless solutions for smart home environments provided by publisher this book includes the original peer reviewed research papers from the 2nd international conference on electrical systems technology and information icesti 2015 held in september 2015 at patra jasa resort villas bali indonesia topics covered include mechatronics and robotics circuits and systems power and energy systems control and industrial automation and information theory it explores emerging technologies and their application in a broad range of engineering disciplines including communication technologies and smart grids it examines hybrid intelligent and knowledge based control embedded systems and machine learning it also presents emerging research and recent application in green energy system and storage it discusses the role of electrical engineering in biomedical industrial and mechanical systems as well as multimedia systems and applications computer vision and image and signal processing the primary objective of this series is to provide references for dissemination and discussion of the above topics this volume is unique in that it includes work related to hybrid intelligent control and its applications engineers and researchers as well as teachers from academia and professionals in industry and government will gain valuable insights into interdisciplinary solutions in the field of emerging electrical technologies and its applications agents and multi agent systems are related to a modern software paradigm which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems the topics covered in this volume include agent oriented software engineering agent co operation co ordination negotiation organization and communication distributed problem solving specification of agent communication languages agent privacy safety and security formalization of ontologies and conversational agents the volume highlights new trends and challenges in agent and multi agent research and includes 38 papers classified in the following specific topics learning paradigms agent based modeling and simulation business model innovation and disruptive technologies anthropic oriented computing serious games and business intelligence design and implementation of intelligent agents and multi agent systems digital economy and advances in networked virtual enterprises published papers have been presented at the 9th kes conference on agent and multi agent systems technologies and applications kes amsta 2015 held in sorrento italy presented results should be of value to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems technologies tools and applications this book presents the proceedings of the 7th international conference on innovative technologies in intelligent systems industrial application citisia held in virtual mode in kuala lumpur malaysia and sydney australia on november 16 18 2022 it showcases advances and innovations in industry 4 0 smart society 5 0 mobile technologies smart manufacturing smart data fusion hybrid intelligence cloud computing and digital society this book presents a comprehensive overview of emerging optical access network solutions to efficiently meet the anticipated growth in bandwidth demand provided by publisher this book includes the original peer reviewed research papers from the conference proceedings of the 2nd international conference on intelligent technologies and engineering systems icites2013 which took place on december 12 14 2013 at cheng shiu university in kaohsiung taiwan topics covered include laser technology wireless and mobile networking lean and agile manufacturing speech processing microwave dielectrics intelligent circuits and systems 3d graphics communications and structure dynamics and control the three volume set lncs 12762 12763 and 12764 constitutes the refereed proceedings of the human computer interaction thematic area of the 23rd international conference on human computer interaction hcii 2021 which took place virtually in july 2021 the total of 1276 papers and 241 posters included in the 39 hcii 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions the 139 papers included in this hci 2021 proceedings were organized in topical sections as follows part i theory methods and tools hci theory education and practice ux evaluation methods techniques and tools emotional and persuasive design and emotions and cognition in hci part ii interaction techniques and novel applications novel interaction techniques human robot interaction digital wellbeing and hci in surgery part iii design and user experience case studies design case studies user experience and technology acceptance studies and hci social distancing information communication and work applied computing in medicine and health is a comprehensive presentation of on going investigations into current applied computing challenges and advances with a focus on a particular class of applications primarily artificial intelligence methods and techniques in medicine and health applied computing is the use of practical computer science knowledge to enable use of the latest technology and techniques in a variety of different fields ranging from business to scientific research one of the most important and relevant areas in applied computing is the use of artificial intelligence ai in health and medicine artificial intelligence in health and medicine aihm is assuming the challenge of creating and distributing tools that can support medical doctors and specialists in new endeavors the material included covers a wide variety of interdisciplinary perspectives concerning the theory and practice of applied computing in medicine human biology and health care particular attention is given to ai based clinical decision making medical knowledge engineering knowledge based systems in medical education and research intelligent medical information systems intelligent databases intelligent devices and instruments medical ai tools reasoning and metareasoning in medicine and methodological philosophical ethical and intelligent medical data analysis discusses applications of artificial intelligence in medical data analysis and

classifications provides an overview of mobile health and telemedicine with specific examples and case studies explains how behavioral intervention technologies use smart phones to support a patient centered approach covers the design and implementation of medical decision support systems in clinical practice using an applied case study approach this book constitutes the refereed proceedings of the 15th national conference on embedded systems technology estc 2017 held in shenyang china in november 2017 the 18 revised full papers presented were carefully reviewed and selected from 45 papers the topics cover a broad range of fields focusing on the theme embedded systems and intelligent computing such as context aware computing scheduling cyber physical system high performance embedded computing embedded system and applications and education and surveys this book constitutes the proceedings of the 8th international symposium on security and privacy in social networks and big data socialsec 2022 which took place in xi an china in october 2022 the 23 papers presented in this volume were carefully reviewed and selected from 103 submissions the papers were evaluated on the basis of their significance novelty technical quality as well as on their practical impact or their level of advancement of the field s foundations they were organized in topical sections as follows cryptography and its applications network security and privacy protection data detection blockchain and its applications this book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 17th international kes conference on agents and multi agent systems technologies and applications kes amsta 2023 held in rome italy in june 14 16 2023 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy building systems magazine bsm is an award winning united states based trade magazine read by builders developers and general contractors using or considering using innovative construction technologies once commonly known as pre fab today s modern building systems employ innovative materials and techniques to create residential or commercial structures in a factory setting in a fraction of the time it takes to site build bsm focuses mainly on log timber frame modular panel and structural insulated panel building technologies since factory fabrication and site preparation take place simultaneously structures are finished and ready for occupancy in weeks rather than months or years as required by conventional site building schedules this book gives a general coverage of learning management systems followed by a comparative analysis of the particular lms products review of technologies supporting different aspect of educational process and the best practices and methodologies for lms supported course delivery provided by publisher infinite suburbia is the culmination of the mit norman b leventhal center for advanced urbanism s yearlong study of the future of suburban development extensive research an exhibition and a conference at mit s media lab this groundbreaking collection presents fifty two essays by seventy four authors from twenty different fields including but not limited to design architecture landscape planning history demographics social justice familial trends policy energy mobility health environment economics and applied and future technologies this exhaustive compilation is richly illustrated with a wealth of photography aerial drone shots drawings plans diagrams charts maps and archival materials making it the definitive statement on suburbia at the beginning of the twenty first century the book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 16th international kes conference on agents and multi agent systems technologies and applications kes amsta 2022 held at rhodes greece in june 20 22 2022 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy spoken dialogue systems technology and design covers key topics in the field of spoken language dialogue interaction from a variety of leading researchers it brings together several perspectives in the areas of corpus annotation and analysis dialogue system construction as well as theoretical perspectives on communicative intention context based generation and modelling of discourse structure these topics are all part of the general research and development within the area of discourse and dialogue with an emphasis on dialogue systems corpora and corpus tools and semantic and pragmatic modelling of discourse and dialogue europe is facing a paradox while governments try to curb public spending the demands on our healthcare systems continue to rise the use of smart technologies and innovation can help to address the challenges faced by healthcare systems today such as an ageing population a shortage of healthcare professionals and restrictions on financial resources but despite increasing evidence of the benefits technology can bring the healthcare sector has been slow to embrace the digital revolution and has stuck to more traditional methods and models this book presents selected contributions to the symposium on personal health monitoring phm and ethics and future areas of phm which took place in advance of the 11th world congress of bioethics held in rotterdam the netherlands in june 2012 most of the papers present the outcomes of the european phm ethics project which conducted interdisciplinary analyses of emerging phm applications additional invited contributions deal with important issues related to the project s primary objectives and outcomes the project is strongly associated with the new e health action plan launched by the european commission in december 2012 which is designed to bring the benefits of digital solutions into healthcare systems the book covers a broad spectrum ranging from the technical setup of phm systems to ethical issues raised by phm applications and will be of interest to all those concerned with improving the provision of healthcare worldwide this book presents recent and important developments in the field of photonics and optoelectronics with a particular focus on laser technology optical communications optoelectronic devices and image processing at present photonics and optoelectronics technologies are pivotal to the future of laser displays sensors and communication technologies and currently being developed at an extraordinary rate this book details the theories underlying the mechanisms involved in the relevant photonics and optoelectronics devices such as laser diodes photodetectors and

integrated optoelectronic circuits are investigated the reviews by leading experts are of interest to researchers and engineers as well as advanced students smart spaces combines the study of working or living spaces with computing information equipment and multimodal sensing devices and with natural and convenient interactive interfaces to support how people can easily obtain services from computer systems people s work and life in smart spaces use computer systems it is a process of uninterrupted interaction between people and the computer system in this process the computer is no longer just an information processing tool that passively executes explicit human operation commands but a collaborator with people to complete tasks a partner to human beings international research on smart spaces is quite extensive which shows the important role of smart spaces in ubiquitous computing research smart spaces covers the latest research concepts and technologies of smart spaces providing technical personnel engaged in smart space related research and industries a more in depth understanding of smart spaces this book can be used as a reference for practicing the emerging discipline of smart spaces and will be useful for researchers scientists developers practitioners and graduate students working in the fields of smart spaces and artificial intelligence comprehensively introduces smart spaces from basic concepts core technologies technical architecture application scenarios and other aspects covers the latest cutting edge application technology of smart spaces in various fields providing relevant practitioners with ideas to solve problems and have a deeper understanding of smart spaces serves as teaching material or as a reference for teachers and students of interaction design internet of things ubiquitous and pervasive computing and artificial intelligence gives a detailed introduction to the theory of smart spaces and uses mathematical formulas

Agent and Multi-Agent Systems: Technologies and Applications 2010-06-18

this book constitutes the proceedings of the 4th international symposium on agent and multi agent systems kes amsta 2010 held in june 2010 in gdynia poland the discussed field is concerned with the development and analysis of ai based problem solving and control architectures for both single agent and multiple agent systems only 83 papers were selected for publication in both volumes and focus on topics such as multi agent systems design and implementation negotiations and social issues services and semantic cooperation coordination and teamwork agent based modeling simulation and decision making multi agent applications management and e business mobile agents and robots and machine learning

Smart Home Systems 2010

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The European Context for Assistive Technology 1995

this book reports on the second congress organised by tide technology initiative for disabled and elderly people a community programme dealing with subjects that are nowadays fully part of the european union s fourth framework programme of research technological development and demonstrations the books covers three major areas the r d activities and the effectiveness of assistive technology products and services dealing with selected factors of paramount importance for the harmonious progress of the at market and related services in europe social legal and economic factors information and service delivery industrial interaction co operation and transfer market issues and technology trends advanced research and development projects and methodological innovations other areas are multimedia virtual reality sensors alternative displays augmentative and alternative communication hearing and speech orientation and navigation robotics electronic documents intelligent environments telecommunications and broadcasting and gesture analysis

Advanced Onsite Wastewater Systems Technologies 2006-01-13

drawing on the authors combined experience of more than 30 years advanced onsite wastewater systems technologies explores use of these technologies on a wide scale basis to solve the problems associated with conventional septic tank and drain field systems the authors discuss a regulatory and management infrastructure for ensuring long term rel

Agent and Multi-Agent Systems: Technologies and Applications 2007-07-07

this book constitutes the refereed proceedings of the first international symposium on agent and multi agent systems technologies and applications kes amsta 2007 held in wroclaw poland in may june 2007 coverage includes agent oriented applications mobility aspects of agent systems agents for network management agent approaches to robotic systems as well as intelligent and secure agents for digital content management

Agent and Multi-Agent Systems: Technologies and Applications 2008-03-14

following from the very successful first kes symposium on agent and multi agent systems technologies and applications kes amsta 2007 held in wroclaw poland 31 may 1 june 2007 the second event in the kes amsta symposium series kes amsta 2008 was held in incheon korea march 26 28 2008 the symposium was organized by the school of computer and information engineering inha university kes international and the kes focus group on agent and mul agent systems the kes amsta symposium series is a sub series of the kes conference series the aim of the symposium was to provide an international forum for scientific research into the technologies and applications of agent and multi agent systems agent and multi agent systems are related to the modern software which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems a key development in the field of agent and multi agent systems has been the specification of agent communication languages and formalization of ontologies agent communication languages are intended to provide standard declarative mechanisms for agents to communicate knowledge and make requests of each other whereas ontologies are intended for conceptualization of the knowledge domain the symposium attracted a very large number of scientists and practitioners who submitted their papers for nine main tracks concerning the methodology and applications of agent and multi agent systems a doctoral track and two special sessions

Broadband Optical Access Networks and Fiber-to-the-Home 2006-07-11

broadband optical access and fiber to the home ftth will provide the ultimate broadband service capabilities compared with the currently well deployed broadband access technologies of adsl asymmetric digital subscriber line and cable modems optical broadband access with fiber to the user s home will cater for much higher speed access for new services broadband optical access networks and fiber to the home presents a comprehensive technical overview of key technologies and deployment strategies for optical broadband access networks and emerging new broadband services the authors discuss network design considerations new services deployment trends and operational experiences while explaining the current situation and providing insights into future broadband access technologies and services broadband optical access networks and fiber to the home offers a comprehensive up to date introduction to new developments in broadband access network technologies and services examines the impact of research and development in photonics technologies on broadband access and ftth covers adsl vdsl with fttc fiber to the curb cable modem over hfc hybrid fiber coax and gigabit ethernet discusses the roles of broadband wireless lan and integrated ftth wireless broadband access as well as broadband home networks provides a global view of broadband network development presenting different technical and system deployment approaches and strategic considerations for comparison gives insight into the worldwide broadband competition and the future of this technology broadband optical access networks and fiber to the home will be an invaluable resource for engineers in research and development network planners business managers consultants as well as analysts and educators for a better understanding of the future of broadband in the field of telecommunications data communications and broadband multimedia service industries

Smart Home Systems 2010-02-01

smart homes are intelligent environments that interact dynamically and respond readily in an adaptive manner to the needs of the occupants and changes in the ambient conditions the realization of systems that support the smart homes concept requires integration of technologies from different fields among the challenges that the designers face is to make all the components of the system interact in a seamless reliable and secure manner another major challenge is to design the smart home in a way that takes into account the way humans live and interact this later aspect requires input from the humanities and social sciences fields the need for input from diverse fields of knowledge reflects the multidisciplinary nature of the research and development effort required to realize smart homes that are acceptable to the general public the applications that can be supported by a smart home are very wide and their degree of sophistication depends on the underlying technology used some of the application areas include monitoring and control of appliances security telemedicine entertainment location based services care for children and the elderly etc this book consists of eleven chapters that cover various aspects of smart home systems

WEB-BASED INFORMATION TECHNOLOGIES AND DISTRIBUTED SYSTEMS 2010-06-01

the fourth international conference on signal image technology internet based s tems sitis 2008 has been successfully held during the period 30th november to 3rd of december of the year 2008 in bali indonesia the track based information te nologies distributed systems witds is one of the four tracks of the conference the track is devoted to emerging and novel concepts architectures and methodologies for c ating an interconnected world in which information can be exchanged easily tasks can be processed collaboratively and communities

of users with similar interests can be formed while addressing security threats that are present more than ever before the track has attracted a large number of submissions only fifteen papers have been accepted with acceptance rate 27 after the successful presentations of the papers during the conference the track chairs have agreed with Atlantis publisher to publish the extended versions of the papers in a book each paper has been extended with a minimum of 30 new materials from its original conference manuscript this book contains these extended versions as chapters after a second round of reviews and improvement the book is an excellent resource of information to researchers and it is based on four themes the first theme is on advances in ad hoc and routing protocols the second theme focuses on the latest techniques and methods on intelligent systems the third theme is a latest trend in security and policies and the last theme is applications of algorithms design methodologies on web based systems

Advances in Smart System Technologies 2020-08-29

this book presents select peer reviewed proceedings of the international conference on frontiers in smart systems technologies icfsst 2019 it focuses on latest research and cutting edge technologies in smart systems and intelligent autonomous systems with advanced functionality comprising topics related to diverse aspects of smart technologies such as high security reliability miniaturization energy consumption and intelligent data processing the book contains contributions from academics as well as industry given the range of the topics covered this book will prove useful for students researchers and professionals alike

Agents and Multi-Agent Systems: Technologies and Applications 2021 2021-06-07

this book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 15th international kes conference on agents and multi agent systems technologies and applications kes amsta 2021 being held as a virtual conference in june 14 16 2021 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy

The Future Home is Wise, Not Smart 2015-10-01

this book introduces the concept of the wise home whilst smart homes focus on automation technologies forcing users to deal with complex and incomprehensible control and programming procedures the wise home is different by going beyond intelligence or smartness the wise home puts technology in the background and supports explicit enhanced user experience as well as implicit artificial intelligence interaction adequate to the end user's needs the theoretical basis of the wise home is explored and examples for its application for future living are presented based on empirical studies and field work carried out by the author principles of hci and the meaning of the home from differing scientific perspectives are discussed and a research model based on the concept of user experience ux and iterations is introduced this has resulted in field deployment guides being produced through a systematic development process the future home is wise not smart will be essential reading to home system developers designers and researchers responsible for smart home deployment or ambient assisted living aal who will get insights on how to follow a novel approach in developing and adapting smart home systems to their users needs students with an interest in software design for pervasive systems will benefit by receiving information on how to develop and customise systems for the specific needs of living environments

Decision Support Systems XI: Decision Support Systems, Analytics and Technologies in Response to Global Crisis Management 2021-05-17

this book constitutes the proceedings of the 7th international conference on decision support systems technologies icdsst 2021 held during may 26 28 2021 the conference was planned to take place in Loughborough UK and changed to an online format due to the COVID-19 pandemic the ewg dss series of international conference on decision support system technology icdsst is planned to consolidate the tradition of annual events organized by the ewg dss in offering a platform for European and international dss communities comprising the academic and industrial sectors to present state of the art dss research and developments to discuss current challenges that surround decision making processes to exchange

ideas about realistic and innovative solutions and to co develop potential business opportunities the main aim of this year s conference is to investigate the role dss and related technologies can play in mitigating the impact of pandemics and post crisis recovery the 10 papers presented in this volume were carefully reviewed and selected from 44 submissions they were organized in two topical sections named multiple criteria approaches and advances in decision support systems technologies and methods

Agents and Multi-agent Systems: Technologies and Applications 2019 2019-06-19

this book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing which were originally presented at the 13th international kes conference on agents and multi agent systems technologies and applications kes amsta 2019 held june 17 19 2019 at st george s bay st julians malta today s economy is driven by technologies and knowledge digital technologies can free shift and multiply choices and often intrude on the territory of other industries by providing new ways of conducting business operations and creating value for customers and companies as such the book covers topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy the research presented is of value to researchers and industrial practitioners working in the fields of artificial intelligence collective computational intelligence innovative business models the new digital and knowledge economy and in particular agent and multi agent systems technologies tools and applications

Agents and Multi-Agent Systems: Technologies and Applications 2018 2018-05-30

this book highlights new trends and challenges in agent systems and new digital and knowledge economy research and includes 34 papers on areas such as intelligent agent interaction and collaboration modeling simulation and mobile agents agent communication and social networks business informatics design and implementation of intelligent agents and multi agent systems these papers were presented at the 12th international kes conference on agents and multi agent systems technologies and applications kes amsta 2018 held on australia s gold coast the modern economy is driven by technologies and knowledge digital technologies can free shift and multiply choices often intruding on the space of other industries by providing new ways of conducting business operations and creating values for customers and companies the book addresses topics that contribute to the modern digital economy including software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing which contribute to the modern digital economy the results presented are of theoretical and practical value to researchers and industrial practitioners working in the fields of artificial intelligence collective computational intelligence innovative business models new digital and knowledge economy and in particular agent and multi agent systems technologies tools and applications

Agents and Multi-Agent Systems: Technologies and Applications 2020 2020-05-20

the book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 14th international kes conference on agents and multi agent systems technologies and applications kes amsta 2020 being held as a virtual conference in june 17 19 2020 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy

Advanced Technologies, Systems, and Applications V 2020-11-04

this book gathers papers that are centered on the theory and practice of a wide variety of advanced technologies they cover the latest developments in computing networking information technology robotics complex systems communications energy mechanical engineering civil engineering geodesy and other subjects these papers were selected for presentation at the 12th annual conference days of the bosnian herzegovinan american academy of arts and sciences bhaaas which was scheduled to be held in mostar bosnia and herzegovina in june 2020 but was postponed due to the coronavirus pandemic however in light of the high quality of the submissions bhaaas technical and natural sciences division

decided to create this special book despite the postponement the editors would like to extend their special thanks to all the chairs of the planned symposia for their dedicated work in the production of this book jasmin kevrčić zerina mašetić dželila mehanović computer science anes kazagić hajrudin džafo izet smajević mechanical engineering tarik uzunović asif Šabanović jasmin kevrčić mechatronics robotics and embedded systems mirza Šarić tarik hubana maja muftić dedović advanced electrical power systems mirza pozder naida ademović međžida mulić civil engineering and geodesy adnan mujezinović muris torlak computer modeling and simulations for engineering applications and aljo mujčić edin mujčić information and communication technologies

Emergent Converging Technologies and Biomedical Systems 2022-03-23

the book contains peer reviewed proceedings of the international conference on emergent converging technologies and biomedical systems 2021 it includes papers on wireless multimedia networks green wireless networks electric vehicles biomedical signal processing and instrumentation wearable sensors for health care monitoring biomedical imaging bio materials modeling and simulation in medicine biomedical and health informatics the book will serve as a useful guide for educators researchers and developers working in the area of signal processing imaging computing instrumentation artificial intelligence and their related applications this book will also provide support and aid to the researchers involved in designing the latest advancements in healthcare technologies

Systems Thinking and Process Dynamics for Marketing Systems: Technologies and Applications for Decision Management 2012-04-30

increased competition in the global marketplace has created enormous pressure on system implementation particularly in the field of marketing systems thinking and process dynamics for marketing systems technologies and applications for decision management describes a holistic approach to monitoring evaluating and applying appropriate marketing strategies and understanding the competition and its future implication on the business of a company as complexities multiply the scientific concept of systems thinking and analyzing process dynamics explained in this publication allows marketing firms succeed the critical issues facing firms today are presented in a thoroughly modern context laying the foundation for a bright future

The Broadband Millennium: Communication Technologies and Markets 2004

this book focuses on future markets for broadband products and services as well as the infrastructure under development that is intended to make those markets more readily attainable and manageable but it also takes on a more ambitious agenda its analysis shows how advanced technologies are facilitating the transition to a new world information and economic order in which much larger percentages of end users have a greater chance of getting what they want

Smart Home Systems 2010-02-01

smart homes are intelligent environments that interact dynamically and respond readily in an adaptive manner to the needs of the occupants and changes in the ambient conditions the realization of systems that support the smart homes concept requires integration of technologies from different fields among the challenges that the designers face is to make all the components of the system interact in a seamless reliable and secure manner another major challenge is to design the smart home in a way that takes into account the way humans live and interact this later aspect requires input from the humanities and social sciences fields the need for input from diverse fields of knowledge reflects the multidisciplinary nature of the research and development effort required to realize smart homes that are acceptable to the general public the applications that can be supported by a smart home are very wide and their degree of sophistication depends on the underlying technology used some of the application areas include monitoring and control of appliances security telemedicine entertainment location based services care for children and the elderly etc this book consists of eleven chapters that cover various aspects of smart home systems

Wireless Technologies for Ambient Assisted Living and Healthcare: Systems and Applications 2010-08-31

this book provides explanations of concepts processes and acronyms related to different areas issues and trends in various areas of wireless technologies for ambient assisted living and healthcare focusing on emerging wireless technologies and innovative wireless solutions for smart home environments provided by publisher

Proceedings of Second International Conference on Electrical Systems, Technology and Information 2015 (ICESTI 2015) 2016-02-10

this book includes the original peer reviewed research papers from the 2nd international conference on electrical systems technology and information icesti 2015 held in september 2015 at patra jasa resort villas bali indonesia topics covered include mechatronics and robotics circuits and systems power and energy systems control and industrial automation and information theory it explores emerging technologies and their application in a broad range of engineering disciplines including communication technologies and smart grids it examines hybrid intelligent and knowledge based control embedded systems and machine learning it also presents emerging research and recent application in green energy system and storage it discusses the role of electrical engineering in biomedical industrial and mechanical systems as well as multimedia systems and applications computer vision and image and signal processing the primary objective of this series is to provide references for dissemination and discussion of the above topics this volume is unique in that it includes work related to hybrid intelligent control and its applications engineers and researchers as well as teachers from academia and professionals in industry and government will gain valuable insights into interdisciplinary solutions in the field of emerging electrical technologies and its applications

Agent and Multi-Agent Systems: Technologies and Applications 2015-06-09

agents and multi agent systems are related to a modern software paradigm which has long been recognized as a promising technology for constructing autonomous complex and intelligent systems the topics covered in this volume include agent oriented software engineering agent co operation co ordination negotiation organization and communication distributed problem solving specification of agent communication languages agent privacy safety and security formalization of ontologies and conversational agents the volume highlights new trends and challenges in agent and multi agent research and includes 38 papers classified in the following specific topics learning paradigms agent based modeling and simulation business model innovation and disruptive technologies anthropic oriented computing serious games and business intelligence design and implementation of intelligent agents and multi agent systems digital economy and advances in networked virtual enterprises published papers have been presented at the 9th kes conference on agent and multi agent systems technologies and applications kes amsta 2015 held in sorrento italy presented results should be of value to the research community working in the fields of artificial intelligence collective computational intelligence robotics dialogue systems and in particular agent and multi agent systems technologies tools and applications

Innovative Technologies in Intelligent Systems and Industrial Applications 2023-11-04

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

Optical Access Networks and Advanced Photonics: Technologies and Deployment Strategies 2009-07-31

this book presents a comprehensive overview of emerging optical access network solutions to efficiently meet the anticipated growth in bandwidth demand provided by publisher

Proceedings of the 2nd International Conference on Intelligent Technologies and Engineering Systems (ICITES2013) 2014-04-18

this book includes the original peer reviewed research papers from the conference proceedings of the 2nd international conference on intelligent technologies and engineering systems icites2013 which took place on december 12 14 2013 at cheng shiu university in kaohsiung taiwan topics covered include laser technology wireless and mobile networking lean and agile manufacturing speech processing microwave dielectrics intelligent circuits and systems 3d graphics communications and structure dynamics and control

Human-Computer Interaction. Design and User Experience Case Studies 2021-07-03

the three volume set lncs 12762 12763 and 12764 constitutes the refereed proceedings of the human computer interaction thematic area of the 23rd international conference on human computer interaction hci 2021 which took place virtually in july 2021 the total of 1276 papers and 241 posters included in the 39 hci 2021 proceedings volumes was carefully reviewed and selected from 5222 submissions the 139 papers included in this hci 2021 proceedings were organized in topical sections as follows part i theory methods and tools hci theory education and practice ux evaluation methods techniques and tools emotional and persuasive design and emotions and cognition in hci part ii interaction techniques and novel applications novel interaction techniques human robot interaction digital wellbeing and hci in surgery part iii design and user experience case studies design case studies user experience and technology acceptance studies and hci social distancing information communication and work

Applied Computing in Medicine and Health 2015-08-21

applied computing in medicine and health is a comprehensive presentation of on going investigations into current applied computing challenges and advances with a focus on a particular class of applications primarily artificial intelligence methods and techniques in medicine and health applied computing is the use of practical computer science knowledge to enable use of the latest technology and techniques in a variety of different fields ranging from business to scientific research one of the most important and relevant areas in applied computing is the use of artificial intelligence ai in health and medicine artificial intelligence in health and medicine aim is assuming the challenge of creating and distributing tools that can support medical doctors and specialists in new endeavors the material included covers a wide variety of interdisciplinary perspectives concerning the theory and practice of applied computing in medicine human biology and health care particular attention is given to ai based clinical decision making medical knowledge engineering knowledge based systems in medical education and research intelligent medical information systems intelligent databases intelligent devices and instruments medical ai tools reasoning and metareasoning in medicine and methodological philosophical ethical and intelligent medical data analysis discusses applications of artificial intelligence in medical data analysis and classifications provides an overview of mobile health and telemedicine with specific examples and case studies explains how behavioral intervention technologies use smart phones to support a patient centered approach covers the design and implementation of medical decision support systems in clinical practice using an applied case study approach

Embedded Systems Technology 2018-07-09

this book constitutes the refereed proceedings of the 15th national conference on embedded systems technology estc 2017 held in shenyang china in november 2017 the 18 revised full papers presented were carefully reviewed and selected from 45 papers the topics cover a broad range of fields focusing on the theme embedded systems and intelligent computing such as context aware computing scheduling cyber physical system high performance embedded computing embedded system and applications and education and surveys

Security and Privacy in Social Networks and Big Data 2022-10-09

this book constitutes the proceedings of the 8th international symposium on security and privacy in social networks and big data socialsec 2022 which took place in xi an china in october 2022 the 23 papers presented in this volume were carefully reviewed and selected from 103 submissions the papers were evaluated on the basis of their significance novelty technical quality as well as on their practical impact or their level of advancement of the field s foundations they were organized in topical sections as follows cryptography and its

applications network security and privacy protection data detection blockchain and its applications

Agents and Multi-agent Systems: Technologies and Applications 2023 2023-05-27

this book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 17th international kes conference on agents and multi agent systems technologies and applications kes amsta 2023 held in rome italy in june 14 16 2023 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy

Building Systems 2000-03

building systems magazine bsm is an award winning united states based trade magazine read by builders developers and general contractors using or considering using innovative construction technologies once commonly known as pre fab today s modern building systems employ innovative materials and techniques to create residential or commercial structures in a factory setting in a fraction of the time it takes to site build bsm focuses mainly on log timber frame modular panel and structural insulated panel building technologies since factory fabrication and site preparation take place simultaneously structures are finished and ready for occupancy in weeks rather than months or years as required by conventional site building schedules

Learning Management System Technologies and Software Solutions for Online Teaching: Tools and Applications 2010-05-31

this book gives a general coverage of learning management systems followed by a comparative analysis of the particular lms products review of technologies supporting different aspect of educational process and the best practices and methodologies for lms supported course delivery provided by publisher

Infinite Suburbia 2018-03-13

infinite suburbia is the culmination of the mit norman b leventhal center for advanced urbanism s yearlong study of the future of suburban development extensive research an exhibition and a conference at mit s media lab this groundbreaking collection presents fifty two essays by seventy four authors from twenty different fields including but not limited to design architecture landscape planning history demographics social justice familial trends policy energy mobility health environment economics and applied and future technologies this exhaustive compilation is richly illustrated with a wealth of photography aerial drone shots drawings plans diagrams charts maps and archival materials making it the definitive statement on suburbia at the beginning of the twenty first century

Agents and Multi-Agent Systems: Technologies and Applications 2022 2022-08-22

the book highlights new trends and challenges in research on agents and the new digital and knowledge economy it includes papers on business process management agent based modeling and simulation and anthropic oriented computing that were originally presented at the 16th international kes conference on agents and multi agent systems technologies and applications kes amsta 2022 held at rhodes greece in june 20 22 2022 the respective papers cover topics such as software agents multi agent systems agent modeling mobile and cloud computing big data analysis business intelligence artificial intelligence social systems computer embedded systems and nature inspired manufacturing all of which contribute to the modern digital economy

Spoken Dialogue Systems Technology and Design 2010-11-09

spoken dialogue systems technology and design covers key topics in the field of spoken language dialogue interaction from a variety of leading researchers it brings together several perspectives in the areas of corpus annotation and analysis dialogue system construction as well as theoretical perspectives on communicative intention context based generation and modelling of discourse structure these topics are all part of the general research and development within the area of discourse and dialogue with an emphasis on dialogue systems corpora and corpus tools and semantic and pragmatic modelling of discourse and dialogue

Interdisciplinary Assessment of Personal Health Monitoring 2013-07-17

Europe is facing a paradox while governments try to curb public spending the demands on our healthcare systems continue to rise the use of smart technologies and innovation can help to address the challenges faced by healthcare systems today such as an ageing population a shortage of healthcare professionals and restrictions on financial resources but despite increasing evidence of the benefits technology can bring the healthcare sector has been slow to embrace the digital revolution and has stuck to more traditional methods and models this book presents selected contributions to the symposium on personal health monitoring phm and ethics and future areas of phm which took place in advance of the 11th world congress of bioethics held in Rotterdam the Netherlands in June 2012 most of the papers present the outcomes of the European phm ethics project which conducted interdisciplinary analyses of emerging phm applications additional invited contributions deal with important issues related to the project's primary objectives and outcomes the project is strongly associated with the new e health action plan launched by the European Commission in December 2012 which is designed to bring the benefits of digital solutions into healthcare systems the book covers a broad spectrum ranging from the technical setup of phm systems to ethical issues raised by phm applications and will be of interest to all those concerned with improving the provision of healthcare worldwide

Advances in Optoelectronic Technology and Industry Development 2019-09-25

this book presents recent and important developments in the field of photonics and optoelectronics with a particular focus on laser technology optical communications optoelectronic devices and image processing at present photonics and optoelectronics technologies are pivotal to the future of laser displays sensors and communication technologies and currently being developed at an extraordinary rate this book details the theories underlying the mechanisms involved in the relevant photonics and optoelectronics devices such as laser diodes photodetectors and integrated optoelectronic circuits are investigated the reviews by leading experts are of interest to researchers and engineers as well as advanced students

Smart Spaces 2024-05-01

smart spaces combines the study of working or living spaces with computing information equipment and multimodal sensing devices and with natural and convenient interactive interfaces to support how people can easily obtain services from computer systems people's work and life in smart spaces use computer systems it is a process of uninterrupted interaction between people and the computer system in this process the computer is no longer just an information processing tool that passively executes explicit human operation commands but a collaborator with people to complete tasks a partner to human beings international research on smart spaces is quite extensive which shows the important role of smart spaces in ubiquitous computing research smart spaces covers the latest research concepts and technologies of smart spaces providing technical personnel engaged in smart space related research and industries a more in depth understanding of smart spaces this book can be used as a reference for practicing the emerging discipline of smart spaces and will be useful for researchers scientists developers practitioners and graduate students working in the fields of smart spaces and artificial intelligence comprehensively introduces smart spaces from basic concepts core technologies technical architecture application scenarios and other aspects covers the latest cutting edge application technology of smart spaces in various fields providing relevant practitioners with ideas to solve problems and have a deeper understanding of smart spaces serves as teaching material or as a reference for teachers and students of interaction design internet of things ubiquitous and pervasive computing and artificial intelligence gives a detailed introduction to the theory of smart spaces and uses mathematical formulas

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