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Computer Science and Ambient Intelligence Agents and Ambient Intelligence Ambient Intelligence and Internet of Things Ambient Intelligence for Scientific Discovery Ambient Intelligence – Software and Applications –, 9th International Symposium on Ambient Intelligence Ambient Intelligence Advances in Ambient Intelligence Ambient Intelligence Ubiquitous Computing and Ambient Intelligence. Sensing, Processing, and Using Environmental Information The New Everyday Ambient Intelligence – Software and Applications Ambient Intelligence - Software and Applications Ambient Intelligence Artificial Intelligence and Ambient Intelligence Human Aspects in Ambient Intelligence Ambient Intelligence – Software and Applications – 12th International Symposium on Ambient Intelligence Ubiquitous Computing and Ambient Intelligence Human-Centric Interfaces for Ambient Intelligence Ambient Intelligence in Everyday Life Proceedings of the 15th International Conference on Ubiquitous Computing & Ambient Intelligence (UCAI 2023) Ambient Intelligence – Software and Applications –, 10th International Symposium on Ambient Intelligence Ambient Intelligence Multimedia Techniques for Device and Ambient Intelligence Ambient Intelligence–Software and Applications–13th International Symposium on Ambient Intelligence Ubiquitous Computing and Ambient Intelligence Ambient Intelligence Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments Handbook of Ambient Intelligence and Smart Environments Ambient Intelligence- Software and Applications – 7th International Symposium on Ambient Intelligence (ISAI 2016) Ambient Intelligence Ambient Intelligence Recent Advances in Ambient Intelligence and Context-Aware Computing Ambient Intelligence – Software and Applications – 14th International Symposium on Ambient Intelligence Computer Science and Ambient Intelligence The Human Face of Ambient Intelligence Innovative Applications of Ambient Intelligence: Advances in Smart Systems Ambient Intelligence Decentralized Reasoning in

Ambient Intelligence Ambient Intelligence Ambient Intelligence

Computer Science and Ambient Intelligence

2013-01-29

this book focuses on ambient intelligence and addresses various issues related to data management networking and hci in this context taking a holistic view it covers various levels of abstraction ranging from fundamental to advanced concepts and brings together the contributions of various specialists in the field moreover the book covers the key areas of computer science concerned with the emergence of ambient intelligence e g interaction middleware networks information systems etc it even goes slightly beyond the borders of computer science with contributions related to smart materials and ethics the authors cover a broad spectrum with some chapters dedicated to the presentation of basic concepts and others focusing on emerging applications in various fields such as health transport and tourism

Agents and Ambient Intelligence

2012-05-10

the concept of an intelligent agent a computational system capable of performing certain tasks autonomously derived from the growing potential of digital computers in the mid 20th century and had been widely adopted by the early 1990s partly in parallel with this concept the perspective of ambient intelligence ami emerged in the late 1990s agent technology and ami have many similarities and the main purpose of this book is to provide an overview of the state of the art of the scientific area that integrates these two the book addresses a wide variety of topics related to agents and ami including theoretical practical design implementation ethical and philosophical issues the 12 chapters are arranged in four sections the first consists of three chapters discussing ethical and philosophical issues the second part explores various approaches that can be used to develop agent based ami systems the third part contains three chapters that share the goal to endow ami systems with useful properties like intelligence and adaptivity and the last section presents concrete applications of agent based ami systems

this book provides an insight into recent achievements and future challenges at the intersection of agent technology and ambient intelligence and will assist the development of more intelligent flexible effective and user friendly systems as well as posing critical questions about the future of the role of agents within the ami perspective

Ambient Intelligence and Internet of Things

2022-12-28

ambinet intelligence and internet of things the book explores long term implementation techniques and research paths of ambient intelligence and the internet of things that meet the design and application requirements of a variety of modern and real time applications working environments based on the emerging technologies of ambient intelligence ami and the internet of things iot are available for current and future use in the diverse field of applications the ami and iot paradigms aim to help people achieve their daily goals by augmenting physical environments using networks of distributed devices including sensors actuators and computational resources because ami iot is the convergence of numerous technologies and associated research fields it takes significant effort to integrate them to make our lives easier it is asserted that am i can successfully analyze the vast amounts of contextual data obtained from such embedded sensors by employing a variety of artificial intelligence ai techniques and that it will transparently and proactively change the environment to conform to the requirements of the user over time the long term research goals and implementation strategies could meet the design and application needs of a wide range of modern and real time applications the 13 chapters in ambient intelligence and internet of things convergent technologies provide a comprehensive knowledge of the fundamental structure of innovative cutting edge ami and iot technologies as well as practical applications audience the book will appeal to researchers industry engineers and students in artificial and ambient intelligence the internet of things intelligent systems electronics and communication electronics instrumentations and computer science

Ambient Intelligence for Scientific Discovery

2005-02-16

many difficult scientific discovery tasks can only be solved in interactive ways by combining intelligent computing techniques with intuitive and adaptive user interfaces it is inevitable to use human intelligence in scientific discovery systems human eyes can capture complex patterns and relationships along with detecting the exceptional cases in a data set the human brain can easily manipulate perceptions to make decisions ambient intelligence is about this kind of ubiquitous and autonomous human interaction with information scientific discovery is a process of creative perception and communication dealing with questions like how do we significantly reduce information while maintaining meaning or how do we extract patterns from massive data and growing data resources originating from the sigchi workshop on ambient intelligence for scientific discovery this state of the art survey is organized in three parts new paradigms in scientific discovery ambient cognition and ambient intelligence systems many chapters share common features such as interaction vision language and biomedicine

Ambient Intelligence – Software and Applications –, 9th International Symposium on Ambient Intelligence

2018-11-04

the aim of the book is to introduce new developments in ambient intelligence from researchers of several countries the book includes different works in the area of ubiquitous computing e health ambient assisted living distributed computing and context aware computing that have been selected by an international committee the studies have been presented in the 9th international symposium on ambient intelligence held in toledo in june 2018

Ambient Intelligence

2011-11-11

this book constitutes the refereed proceedings of the second international joint conference on ambient intelligence ami 2011 held in amsterdam the netherlands in november 2011 the 58 revised full papers presented were carefully reviewed and selected from numerous submissions the papers cover a wide range of topics such as haptic interfaces smart sensing smart environments novel interaction technologies affecting human behaviour privacy and trust landscape and ambient assisted living

Advances in Ambient Intelligence

2007

ambient intelligence lies at the confluence of several trends the continued decrease in cost and size of computing technology the increasing availability of networking and communication infrastructure the growing public familiarity comfort with computing artifacts and practical advances in artificial intelligence these developments make it possible to contemplate the ubiquitous deployment of intelligent systems prototypically in smart homes but more broadly in public spaces private automobiles and on individual appliances and hand held devices in applications ranging from entertainment through eldercare to safety critical device control ambient intelligence is a young field as a result it has been natural to wonder what the technology can do to improve the way we live at the same time it is becoming increasingly important to ask what do we want since the intent is to embed technology in new and pervasive ways the contributions in this volume provide a window into the visions and trends currently dominating the area of ambient intelligence this publication is divided into three sections the first describes visions for the future of ambient intelligence the second addresses core technology of the field and the third provides an analysis of elements of the area which will demand special consideration during the future development of the area

Ambient Intelligence

2005

the metaphor of ambient intelligence ami tries to picture a vision of the future where all of us will be surrounded by intelligent electronic environments and this ambient has claims to being sensitive and responsive to our needs ambient intelligence without invasion of privacy represents a long term vision for the eu information society technologies research programme a strong multi disciplinary and collaborative approach is a key requirement for large scale technology innovation and the development of effective applications up to now most of the books and papers related to ami focus their analysis on the technology potential only an important feature of this volume is the link between the technology through the concepts of ubiquitous computing and intelligent interface and the human experience of interacting in the world through a neuro psychological vision centred on the concept of presence presence the sense of being there is the experience of projecting one s mind through media to other places people and designed environments the combination of recent discoveries in cognitive neuroscience which make it possible to acquire a better understanding of the human aspects of presence and the breakthroughs at the level of the enabling technologies make it increasingly possible to build novel systems based on this understanding the goal of this volume is to assess the technologies and processes that are behind the ami vision in order to help the development of state of the art applications more in detail this volume aims at supporting researchers and scientists interested in the understanding and exploiting the potential of ami

Ubiquitous Computing and Ambient Intelligence. Sensing, Processing, and Using Environmental

Information

2015-12-12

this book constitutes the refereed proceedings of the 9th international conference on ubiquitous computing and ambient intelligence ucami

2015 held in puerto varas chile in december 2015 the 36 full papers presented together with 11 short papers were carefully reviewed and selected from 62 submissions the papers are grouped in topical sections on adding intelligence for environment adaption ambient intelligence for transport human interaction and ambient intelligence and ambient intelligence for urban areas

The New Everyday

2003

this book includes the outcomes of the 11th international symposium on ambient intelligence isami 2020 the 11th international symposium on ambient intelligence is hosted by the university of l aquila and is going to be held in l aquila italy initially planned on the 17th to the 19th of june 2020 it was postponed to the 7th to the 9th of october 2020 due to the covid 19 outbreak

Ambient Intelligence – Software and Applications

2020-09-09

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 and 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 namely in terms of software and applications and aims to bring together researchers from various disciplines that are interested in all aspects of this area

Ambient Intelligence – Software and Applications

2014-05-16

ambient intelligence is the vision of a technology that will become invisibly embedded in our natural surroundings present whenever we need it enabled by simple and effortless interactions attuned to all our senses adaptive to users and context sensitive and autonomous high quality information access and personalized content must be available to everybody anywhere and at any time this book addresses ambient intelligence used to support human contacts and accompany an individual s path through the complicated modern world from the technical standpoint distributed electronic intelligence is addressed as hardware vanishing into the background devices used for ambient intelligence are small low power low weight and very importantly low cost they collaborate or interact with each other and they are redundant and error tolerant this means that the failure of one device will not cause failure of the whole system since wired connections often do not exist radio methods will play an important role for data transfer this book addresses various aspects of ambient intelligence from applications that are imminent since they use essentially existing technologies to ambitious ideas whose realization is still far away due to major unsolved technical challenges

Ambient Intelligence

2005-03-04

this book includes a series of scientific papers published in the special issue on artificial intelligence and ambient intelligence at the journal

electronics mdpi the book starts with an opinion paper on relations between electronics artificial intelligence and information society through information society rules presenting relations between information society electronics and artificial intelligence mainly through twenty four is laws after that the book continues with a series of technical papers that present applications of artificial intelligence and ambient intelligence in a variety of fields including affective computing privacy and security in smart environments and robotics more specifically the first part presents usage of artificial intelligence ai methods in combination with wearable devices e g smartphones and wristbands for recognizing human psychological states e g emotions and cognitive load the second part presents usage of ai methods in combination with laser sensors or wi fi signals for improving security in smart buildings by identifying and counting the number of visitors the last part presents usage of ai methods in robotics for improving robots ability for object gripping manipulation and perception the language of the book is rather technical thus the intended audience are scientists and researchers who have at least some basic knowledge in computer science

Artificial Intelligence and Ambient Intelligence

2021

this book presents recent developments in the field of human aspects in ambient intelligence this field and the associated workshop series addresses multidisciplinary aspects of ami with human directed disciplines such as psychology social science neuroscience and biomedical sciences the aim of the workshop series is to get researchers together from these human directed disciplines or working on cross connections of ami with these disciplines the focus is on the use of knowledge from these disciplines in ami applications in order to support humans in their daily living in medical psychological and social respects the book plays important role to get modellers in the psychological neurological social or biomedical disciplines interested in ami as a high potential application area for their models from the other side the book may make researchers in computer science and artificial and ambient intelligence more aware of the possibilities to incorporate more substantial knowledge from the psychological neurological social and biomedical disciplines in ami architectures and applications

Human Aspects in Ambient Intelligence

2013-09-13

this book presents the latest research on ambient intelligence ami including software and applications in different areas such as internet of things multi agent systems or e learning among others ami is a paradigm emerging from artificial intelligence in which computers are used as proactive tools for assisting people with their day to day activities making everyone s lives 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 of user friendly interfaces the published book correspond to technical and novel works carried out by scientists conducting research within the ami area in one of the areas mentioned above the intended readers are those with mainly technical profiles who are already working in the area of ami or who want to focus their current work in this area the papers collected in this book were presented at a symposium which was jointly organized by the universidade do minho and university of salamanca the latest installment was held in salamanca spain from october 6th to 8th 2021 the authors wish to thank the sponsors ibm indra viewnext global exchange aepia appia and air institute

Ambient Intelligence – Software and Applications – 12th International Symposium on Ambient Intelligence

2022-08-31

this book constitutes the refereed conference proceedings of the 11th international conference on ubiquitous computing and ambient intelligence ucami 2017 held in philadelphia pa usa in november 2017 the 60 revised full papers and 22 short papers presented were carefully reviewed and selected from 100 submissions the papers are presented in six tracks and two special sessions these are ambient assisted living human computer interaction ambient intelligence for health internet of things and smart cities ad hoc and sensor networks sustainability

socio cognitive and affective computing ami systems and machine learning

Ubiquitous Computing and Ambient Intelligence

2017-10-05

to create truly effective human centric ambient intelligence systems both engineering and computing methods are needed this is the first book to bridge data processing and intelligent reasoning methods for the creation of human centered ambient intelligence systems interdisciplinary in nature the book covers topics such as multi modal interfaces human computer interaction smart environments and pervasive computing addressing principles paradigms methods and applications this book will be an ideal reference for university researchers r d engineers computer engineers and graduate students working in signal speech and video processing multi modal interfaces human computer interaction and applications of ambient intelligence hamid aghajan is a professor of electrical engineering consulting at stanford university usa his research is on user centric vision applications in smart homes assisted living well being smart meetings and avatar based social interactions he is editor in chief of journal of ambient intelligence and smart environments has chaired acm ieee icdsc 2008 and organized workshops sessions tutorials at eccv acm mm fg ecai icassp cvpr juan carlos augusto is a lecturer at the university of ulster uk he is conducting research on smart homes and classrooms he has given tutorials at ijcai 07 and aaai 08 he is editor in chief of the book series on ambient intelligence and smart environments and the journal of ambient intelligence and smart environments he has co chaired icost 06 aitami 06 07 08 and is workshops chair for ie 09 ramón lópez cózar delgado is a professor at the faculty of computer science and telecommunications of the university of granada spain his research interests include speech recognition and understanding dialogue management and ambient intelligence he is a member of isca international speech communication association sepln spanish society on natural language processing and aipo spanish society on hci integrates engineering and computing methods that are essential for designing and implementing highly effective ambient intelligence systems contains contributions from the world s leading experts in academia and industry gives a complete overview of the principles paradigms and applications of human centric ambient intelligence systems

Human-Centric Interfaces for Ambient Intelligence

2009-09-25

ambient intelligence refers to smart electronic environments that are sensitive and responsive to the presence of people this book originates from the workshop on ambient intelligence in everyday life held in san sebastian spain july 2005 coverage is devoted to the cognitive aspects of ambient intelligence the 15 carefully reviewed and revised articles presented are organized in topical sections on human centric computing ambient interfaces and architectures for ambient intelligence

Ambient Intelligence in Everyday Life

2006-08-18

this book presents the latest research on ambient intelligence including software and applications ambient intelligence ami is a paradigm emerging from artificial intelligence in which computers are used as proactive tools for assisting people with their day to day activities making everyone s lives 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 of user friendly interfaces this field is evolving rapidly as can be seen in emerging natural language and gesture based types of interaction this symposium was jointly organized by the universidade do minho technical university of valencia hiroshima university and university of salamanca the latest installment was held in Ávila spain from 26th to 28th june 2019 the authors wish to thank the sponsors ieee systems man and cybernetics society spain section chapter and the ieee spain section technical co sponsor ibm indra viewnext global exchange aepia appia and air institute

Proceedings of the 15th International Conference on Ubiquitous Computing & Ambient Intelligence (UCAmI 2023)

2019-06-22

this book constitutes the refereed proceedings of the 5th international joint conference of ambient intelligence ami 2014 held in eindhoven the netherlands in november 2014 the 21 revised full papers presented together with 5 short papers and 4 workshop papers were carefully reviewed and selected from 59 submissions the papers are organized along a set of thematic tracks ambient assisted living internet of things ambient play and learning smart buildings and cities intelligent driving data science smart healthcare and healing environments ambient persuasion and new and emerging themes

Ambient Intelligence – Software and Applications –, 10th International Symposium on Ambient Intelligence

2015-02-16

ambient intelligence is a vision of the future where the world will be surrounded by electronic environments sensitive and responsive to people wherein devices work in concert to support people in carrying out their everyday life activities in an easy and natural way this edited volume is based on the workshop multimedia techniques for ambient intelligence mtdai08 held in mogliano veneto italy in march 2008 contributed by world renowned leaders in the field from academia and industry this volume is dedicated to research on technologies used to improve the intelligence capability of multimedia devices for imaging image processing and computer vision focuses on recent developments in digital signal processing including evolutions in audiovisual signal processing analysis coding and authentication and retrieval techniques designed for

researchers and professionals this book is also suitable for advanced level students in computer science and electrical engineering

Ambient Intelligence

2009-05-28

this book presents the latest research on ambient intelligence including software and applications ambient intelligence ami is a paradigm emerging from artificial intelligence where computers are used as proactive tools assisting people with their day to day activities making everyone s life more comfortable 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 ami to present and discuss the latest results new ideas projects and lessons learned

Multimedia Techniques for Device and Ambient Intelligence

2023-01-01

this book constitutes the refereed proceedings of the 6th international conference on ubiquitous computing and ambient intelligence ucami 2012 held in vitoria gasteiz spain in december 2012 the 70 research papers were carefully reviewed and selected from various submissions the main focus of this book has been to explore how ambient intelligence can contribute towards smarter but still more sustainable environments beyond sustainable computing the proceedings also include research work describing progress on other key research topics for ami such as human environment mobile mediated through nfc or ar interaction artificial intelligence techniques to foster user and context

aware environment adaptation future internet trends such as social networks analysis linked data or crowd sourcing applied to ami internet connected object ecosystems collaborating to give place to smarter environments

Ambient Intelligence—Software and Applications—13th International Symposium on Ambient Intelligence

2012-11-28

this book constitutes the refereed proceedings of the third european conference on ambient intelligence ami 2009 held in salzburg austria in november 2009 the 21 revised full papers and 10 short papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book the papers are organized in topical sections on sensing reasoning and sensing ambient technology ambient assisted living applications and studies methods and tools and reasoning and adaption

Ubiquitous Computing and Ambient Intelligence

2009-11-05

ambient intelligence began as a vision for the future of technology and has now become a reality the widespread use of modern technology has quickly expanded into the use of our everyday lives on a daily basis we are instantly connected to people places ideas and information which have led to the acceleration of knowledge as the continuing development of new technologies becomes available those technologies will play an integral role in the future pervasive and ubiquitous technology innovations for ambient intelligence environments is a collection of research on the subject matter of human computer interaction ubiquitous computing embedded systems and other areas of study which contribute to ambient intelligence this comprehensive reference aims to broaden the overall knowledge on ambient intelligence as it relates to

the aspects of modern life

Ambient Intelligence

2012-09-30

our homes anticipate when we want to wake up our computers predict what music we want to buy our cars adapt to the way we drive in today's world even washing machines rice cookers and toys have the capability of autonomous decision making as we grow accustomed to computing power embedded in our surroundings it becomes clear that these smart environments with a number of devices controlled by a coordinating system capable of ambient intelligence will play an ever larger role in our lives this handbook provides readers with comprehensive up to date coverage in what is a key technological field systematically dealing with each aspect of ambient intelligence and smart environments the text covers everything from visual information capture and human computer interaction to multi agent systems network use of sensor data and building more rationality into artificial systems the book also details a wide range of applications examines case studies of recent major projects from around the world and analyzes both the likely impact of the technology on our lives and its ethical implications with a wide variety of separate disciplines all conducting research relevant to this field this handbook encourages collaboration between disparate researchers by setting out the fundamental concepts from each area that are relevant to ambient intelligence and smart environments providing a fertile soil in which ground breaking new work can develop

Pervasive and Ubiquitous Technology Innovations for Ambient Intelligence Environments

2009-10-01

ambient intelligence ami is a recent paradigm emerging from artificial intelligence 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 and 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 namely in terms of software and applications and aims to bring together researchers from various disciplines that are interested in all aspects of this area

Handbook of Ambient Intelligence and Smart Environments

2016-05-27

in a world supported by ambient intelligence ami various devices embedded in the environment collectively use the distributed information and the intelligence inherent in this interconnected environment a range of information from sensing and reasoning technologies is used by distributed devices in the environment the cooperation between natural user interfaces and sensor interfaces covers all of a person's surroundings resulting in a device environment that behaves intelligently the term ambient intelligence has been coined to describe it in this way the environment is able to recognize the persons in it to identify their individual needs to learn from their behavior and to act and react in their interest since this vision is influenced by a lot of different concepts in information processing and combines multi disciplinary fields in electrical engineering computer science industrial design user interfaces and cognitive sciences considerable research is needed to provide new models of technological innovation within a multi dimensional society thus the ami vision relies on the large scale integration of electronics into the environment enabling the actors i.e. people and objects to interact with their surrounding in a seamless trustworthy and natural manner

Ambient Intelligence- Software and Applications – 7th International Symposium on Ambient Intelligence (ISAmI 2016)

2010-10-31

ambient intelligence ami is an integrating technology for supporting a pervasive and transparent infrastructure for implementing smart environments such technology is used to enable environments for detecting events and behaviors of people and for responding in a contextually relevant fashion ami proposes a multi disciplinary approach for enhancing human machine interaction ambient intelligence a novel paradigm is a compilation of edited chapters describing current state of the art and new research techniques including those related to intelligent visual monitoring face and speech recognition innovative education methods as well as smart and cognitive environments the authors start with a description of the idorm as an example of a smart environment conforming to the ami paradigm and introduces computer vision as an important component of the system other computer vision examples describe visual monitoring for the elderly classic and novel surveillance techniques using clusters of cameras installed in indoor and outdoor application domains and the monitoring of public spaces face and speech recognition systems are also covered as well as enhanced lego blocks for novel educational purposes the book closes with a provocative chapter on how a cybernetic system can be designed as the backbone of a human machine interaction

Ambient Intelligence

2006-01-16

modern devices from phones and cars to houses and the appliances within them are being designed with formidable computational power and expanded functionality to be truly effective these smart devices must effectively process data from their environment and experiences and make decisions based on that information recent advances in ambient intelligence and context aware computing investigates the functionality

of ubiquitous computational systems and how they may adapt to their environment to improve the quality of interaction for the end user this reference book will be of value to under and post graduate students professionals and researchers in networking computer science communications and other information technology disciplines

Ambient Intelligence

2014-11-30

this book presents the latest research on ambient intelligence ami presented in the 14th international symposium on ambient intelligence isami 2023 among others interested researchers can find works on the recognition of emotions and life conditions smart applications for improving people s quality of life and safety smart cities and territories as well as advances in data semantics organization and privacy among others the symposium was organized by the universidade do minho portugal the universitat politècnica de valència spain the university of granada spain the national institute of informatics japan the instituto superior de engenharia do porto portugal the universidad de salamanca spain and with the air institute spain as sponsor the present edition was hosted by the lasi and centro algoritmi of the university of minho in guimarães portugal from july 12 to 14 2023

Recent Advances in Ambient Intelligence and Context-Aware Computing

2023-09-25

as a socially disruptive technology ambient intelligence is ultimately directed towards humans and targeted at the mundane life made of an infinite richness of circumstances that cannot fully be considered and easily be anticipated most books however focus their analysis on or deal largely with the advancement of the technology and its potential only this book offers a fresh up to date and holistic approach to ambient intelligence as such it addresses the interdisciplinary and transdisciplinary aspects of the rapidly evolving field of ambient intelligence by

seamlessly integrating and fusing it with artificial intelligence cognitive science and psychology social sciences and humanities it is divided into two main parts part 1 is about different permutations of enabling technologies as well as core computational capabilities namely context awareness implicit and natural interaction and intelligent behavior it details the existing and upcoming prerequisite technologies and elucidates the application and convergence of major current and future computing trends part 2 is an accessible review and synthesis of the latest research in the human directed sciences and computing and how these are intricately interrelated in the realm of ambient intelligence it deals with the state of the art human inspired applications which show human like understanding and exhibit intelligent behavior in relation to a variety of aspects of human functioning states and processes it describes and elaborates on the rich potential of ambient intelligence from a variety of interrelated perspectives and the plethora of challenges and bottlenecks involved in making ambient intelligence a reality and also discusses the established knowledge and recent discoveries in the human directed sciences and their application and convergence in the ambit of ambient intelligence computing this seminal reference work is the most comprehensive of its kind and will prove invaluable to students researchers and professionals across both computing and the human directed sciences

Ambient Intelligence – Software and Applications – 14th International Symposium on Ambient Intelligence

2013

this book provides perspectives on the convergence of ubiquitous computing intelligent systems research and context awareness with the aim of encouraging the further development of ambient intelligence frameworks and research

Computer Science and Ambient Intelligence

2015-06-26

this book constitutes the refereed proceedings of the 12th european conference on ambient intelligence ami 2015 held in athens greece in november 2015 the 21 revised full papers presented together with 5 short papers were carefully reviewed and selected from 48 submissions over the past 20 years the vision of ambient intelligence has gradually materialized into a plethora of technologies and devices which are being introduced into almost every aspect of everyday life thus affecting our abilities activities behavior and in the end shaping a new way of thinking

The Human Face of Ambient Intelligence

2012-01-31

in ambient intelligence ami systems reasoning is fundamental for triggering actions or adaptations according to specific situations that may be meaningful and relevant to some applications however such reasoning operations may need to evaluate context data collected from distributed sources and stored in different devices as usually not all context data is readily available to the reasoners within the system decentralized reasoning in ambient intelligence proposes a decentralized reasoning approach for performing rule based reasoning about context data targeting ami systems for this purpose the authors define a context model assuming context data distributed over two sides the user side represented by the users and their mobile devices and the ambient side represented by the fixed computational infrastructure and ambient services they formalize the cooperative reasoning operation in which two entities cooperate to perform decentralized rule based reasoning and define a complete process to perform this operation

Innovative Applications of Ambient Intelligence: Advances in Smart Systems

2015-10-31

this book constitutes the refereed proceedings of the 14th european conference on ambient intelligence ami 2018 held in larnaca cyprus in november 2018 the 12 revised full papers presented together with 6 short papers were carefully reviewed and selected from 36 submissions the papers cover topics such as ambient services and smart environments sensor networks and artificial intelligence activity and situation recognition ambient intelligence in education

Ambient Intelligence

2012-05-24

this book constitutes the refereed proceedings of the 15th european conference on ambient intelligence ami 2019 held in rome italy in november 2019 the 20 full papers presented together with 10 short papers were carefully reviewed and selected from 50 submissions the papers cover topics such as embedded devices that can merge unobtrusively and in natural ways using information and intelligence hidden in the network connecting these devices e g the internet of things the main topic of ami 2019 was data driven ambient intelligence which follows the vision of calm technology where technology is useful but does not demand our full attention or interfere with our usual behavior and activities

Decentralized Reasoning in Ambient Intelligence

2018-10-29

Ambient Intelligence

2019-11-06

Ambient Intelligence

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