

THE HANDBOOK OF RESEARCH ON

Ambient Intelligence and Smart Environments

Trends and Perspectives



Nak-Young Chong & Fulvio Mastrogiovanni

Handbook Of Ambient Intelligence And Smart Environments

Shasha Hu



Handbook Of Ambient Intelligence And Smart Environments:

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Handbook of Ambient Intelligence and Smart Environments Hideyuki Nakashima, Hamid Aghajan, Juan Carlos Augusto, 2010-11-16 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

Handbook of Research on Ambient Intelligence and Smart Environments Nak-Young Chong, Fulvio Mastrogiovanni, 2010-08-01 This book covers the cutting edge aspects of AMI applications specifically those involving the effective design realization and implementation of a comprehensive ambient intelligence in smart environments **Guide to**

Ambient Intelligence in the IoT Environment Zaigham Mahmood, 2019-01-01 Ambient intelligence AmI is an element of pervasive computing that brings smartness to living and business environments to make them more sensitive adaptive autonomous and personalized to human needs It refers to intelligent interfaces that recognise human presence and preferences and adjust smart environments to suit their immediate needs and requirements The key factor is the presence of intelligence and decision making capabilities in IoT environments The underlying technologies include pervasive computing ubiquitous communication seamless connectivity of smart devices sensor networks artificial intelligence AI machine learning ML and context aware human computer interaction HCI AmI applications and scenarios include smart homes autonomous self driving vehicles healthcare systems smart roads the industry sector smart facilities management the education sector emergency services and many more The advantages of AmI in the IoT environment are extensive However as for any new technological paradigm there are also many open issues and limitations This book discusses the AmI element of the IoT and the relevant principles frameworks and technologies in particular as well as the benefits and inherent limitations It reviews the state of the art of current developments relating to smart spaces and AmI based IoT environments Written by leading international researchers and practitioners the majority of the contributions focus on device connectivity pervasive computing and context modelling including communication security interoperability scalability and adaptability The book presents cutting edge research current trends and case studies as well as suggestions to further our understanding and the development and enhancement of the AmI IoT vision Artificial Intelligence and Smart Environment Yousef

Farhaoui, Alvaro Rocha, Zouhaier Brahmia, Bharat Bhushab, 2023-03-07 This book reviews the state of the art of big data analysis artificial intelligence and smart environments Data is becoming an increasingly decisive resource in modern societies economies and governmental organizations Data science artificial intelligence and smart environments inspire novel techniques and theories drawn from mathematics statistics information theory computer science and social science This book reviews the state of the art of big data analysis artificial intelligence and smart environments It includes issues that pertain to signal processing probability models machine learning data mining database data engineering pattern recognition visualization predictive analytics data warehousing data compression computer programming smart city etc The papers in this book were the outcome of research conducted in this field of study The latter makes use of applications and techniques related to data analysis in general and big data and smart city in particular The book appeals to advanced undergraduate and graduate students post doctoral researchers lecturers and industrial researchers as well as anyone interested in big data analysis and artificial intelligence Workshop Proceedings of the 8th International Conference on Intelligent Environments Juan A. Botía, Hedda Schmidtke, Tatsuo Nakashima, Mohammad R. Al-Mulla, Juan Carlos Augusto, Asier Aztiria, Matthew Ball, Victor Callaghan, Diane J. Cook, James Dooley, John O' Donoghue, Simon Egerton, Pablo A. Haya, Miguel J. Hornos, Eduardo Morales, Juan Carlos Orozco, Otniel Portillo-Rodríguez, Alejandro Rodrigues-González, Oscar Sandoval, Paolo

Tripicchio, Minjuan Wang, Victor Zamudio, 2012 Intelligent environments IE play an increasingly important role in many areas of our lives including education healthcare and the domestic environment The term refers to physical spaces incorporating pervasive computing technology used to achieve specific goals for the user the environment or both This book presents the proceedings of the workshops of the 8th International Conference on Intelligent Environments IE 12 held in Guanajuato Mexico in June 2012 The workshops which make up the conference range from regular lectures to practical sessions They provide a forum for scientists researchers and engineers from both industry and academia to engage in discussions on newly emerging or rapidly evolving topics in the field Topics covered in the workshops include intelligent environments supporting healthcare and well being artificial intelligence techniques for ambient intelligence large scale intelligent environments intelligent domestic robots intelligent environment technology in education multimodal interfaces applied in skills transfer healthcare and rehabilitation the reliability of intelligent environments and improving industrial automation using intelligent environments IE can enrich user experience better manage the environment s resources and increase user awareness of that environment This book will be of interest to all those whose work involves the application of intelligent environments

Smart Health Andreas Holzinger, Carsten Röcker, Martina Ziefle, 2015-02-24 Prolonged life expectancy along with the increasing complexity of medicine and health services raises health costs worldwide dramatically Whilst the smart health concept has much potential to support the concept of the emerging P4 medicine preventive participatory predictive and personalized such high tech medicine produces large amounts of high dimensional weakly structured data sets and massive amounts of unstructured information All these technological approaches along with big data are turning the medical sciences into a data intensive science To keep pace with the growing amounts of complex data smart hospital approaches are a commandment of the future necessitating context aware computing along with advanced interaction paradigms in new physical digital ecosystems The very successful synergistic combination of methodologies and approaches from Human Computer Interaction HCI and Knowledge Discovery and Data Mining KDD offers ideal conditions for the vision to support human intelligence with machine learning The papers selected for this volume focus on hot topics in smart health they discuss open problems and future challenges in order to provide a research agenda to stimulate further research and progress

Intelligent Pervasive Computing Systems for Smarter Healthcare Arun Kumar Sangaiah, S.P. Shantharajah, Padma Theagarajan, 2019-06-21 A guide to intelligent decision and pervasive computing paradigms for healthcare analytics systems with a focus on the use of bio sensors Intelligent Pervasive Computing Systems for Smarter Healthcare describes the innovations in healthcare made possible by computing through bio sensors The pervasive computing paradigm offers tremendous advantages in diversified areas of healthcare research and technology The authors noted experts in the field provide the state of the art intelligence paradigm that enables optimization of medical assessment for a healthy authentic safer and more productive environment Today s computers are integrated through bio sensors and

generate a huge amount of information that can enhance our ability to process enormous bio informatics data that can be transformed into meaningful medical knowledge and help with diagnosis monitoring and tracking health issues clinical decision making early detection of infectious disease prevention and rapid analysis of health hazards The text examines a wealth of topics such as the design and development of pervasive healthcare technologies data modeling and information management wearable biosensors and their systems and more This important resource Explores the recent trends and developments in computing through bio sensors and its technological applications Contains a review of biosensors and sensor systems and networks for mobile health monitoring Offers an opportunity for readers to examine the concepts and future outlook of intelligence on healthcare systems incorporating biosensor applications Includes information on privacy and security issues on wireless body area network for remote healthcare monitoring Written for scientists and application developers and professionals in related fields Intelligent Pervasive Computing Systems for Smarter Healthcare is a guide to the most recent developments in intelligent computer systems that are applicable to the healthcare industry Smart Sustainable Cities of the Future Simon Elias Bibri, 2018-02-24 This book is intended to help explore the field of smart sustainable cities in its complexity heterogeneity and breadth the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world Indeed sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms and shaping the way cities will evolve in the future and thus tackle complex challenges This book integrates computer science data science complexity science sustainability science system thinking and urban planning and design As such it contains innovative computer based and data analytic research on smart sustainable cities as complex and dynamic systems It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes It offers contributions pertaining to the ongoing development of computer based and data science technologies for the processing analysis management modeling and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability This book seeks to explicitly bring together the smart city and sustainable city endeavors and to focus on big data analytics and context aware computing specifically In doing so it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability Its strength lies in combining big data and context aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable development This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data centric and context aware solutions for enhancing urban systems and facilitating coordination among urban domains This timely and comprehensive book is aimed at

a wide audience across science academia industry and policymaking It provides the necessary material to inform relevant research communities of the state of the art research and the latest development in the area of smart sustainable urban development as well as a valuable reference for planners designers strategists and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context aware computing

Handbook of Smart Cities Juan Carlos Augusto,2021-07-17 This Handbook presents a comprehensive and rigorous overview of the state of the art on Smart Cities It provides the reader with an authoritative exhaustive one stop reference on how the field has evolved and where the current and future challenges lie From the foundations to the many overlapping dimensions human energy technology data institutions ethics etc each chapter is written by international experts and amply illustrated with figures and tables with an emphasis on current research The Handbook is an invaluable desk reference for researchers in a wide variety of fields not only smart cities specialists but also by scientists and policy makers in related disciplines that are deeply influenced by the emergence of intelligent cities It should also serve as a key resource for graduate students and young researchers entering the area and for instructors who teach courses on these subjects The handbook is also of interest to industry and business innovators

Smart Trends in Computing and Communications

Yu-Dong Zhang,Tomonobu Senjyu,Chakchai So-In,Amit Joshi,2021-10-25 This book gathers high quality papers presented at the Fifth International Conference on Smart Trends in Computing and Communications SmartCom 2021 organized by Global Knowledge Research Foundation GR Foundation from March 2 3 2021 It covers the state of the art and emerging topics in information computer communications and effective strategies for their use in engineering and managerial applications It also explores and discusses the latest technological advances in and future directions for information and knowledge computing and its applications

Engineering Education J. Paulo Davim,2014-10-17 Information about engineering education is highly relevant for improving communication between professors researchers and students in engineering schools institutions laboratories and industry Technological change is fundamental to the development of education systems Engineering Education emphasises curriculum development pedagogy and didactic aspects of engineering education covering relevant aspects from more classical engineering courses such as mechanical manufacturing industrial chemical environmental civil and systems courses to more contemporary courses including nano engineering and bioengineering along with information on sustainable development in the context of engineering education Rigorously covers this timely and relevant area A diverse range of subjects examined by international experts Written by highly knowledgeable and well respected experts in the field

Artificial Intelligence to Solve Pervasive Internet of Things Issues

Gurjit Kaur,Pradeep Tomar,Marcus Tanque,2020-11-18 Artificial Intelligence to Solve Pervasive Internet of Things Issues discusses standards and technologies and wide ranging technology areas and their applications and challenges including discussions on architectures frameworks applications best practices methods and techniques required for integrating AI to resolve IoT

issues Chapters also provide step by step measures practices and solutions to tackle vital decision making and practical issues affecting IoT technology including autonomous devices and computerized systems Such issues range from adopting mitigating maintaining modernizing and protecting AI and IoT infrastructure components such as scalability sustainability latency system decentralization and maintainability The book enables readers to explore discover and implement new solutions for integrating AI to solve IoT issues Resolving these issues will help readers address many real world applications in areas such as scientific research healthcare defense aeronautics engineering social media and many others Discusses intelligent techniques for the implementation of Artificial Intelligence in Internet of Things Prepared for researchers and specialists who are interested in the use and integration of IoT and Artificial Intelligence technologies

Smart Cities in the Post-algorithmic Era Nicos Komninos, Christina Kakderi, 2019-12-27 Examining the changing nature of cities in the face of smart technology this book studies key new challenges and capabilities defined by the Internet of Things data science blockchain and artificial intelligence It argues that using algorithmic logic alone for automation and optimisation in modern smart cities is not sufficient and analyses the importance of integrating this with strong participatory governance and digital platforms for community action *6th ASCAAD Conference 2012 CAAD | INNOVATION | PRACTICE* ,

Creating Synthetic Emotions through Technological and Robotic Advancements Vallverdú, Jordi, 2012-05-31 As humans interact more often and more intimately with computers and as computational systems become an ever more important element of our society playing roles in education the production of culture and goods and management it is inevitable that we should seek to interact with these systems in ways that take advantage of our powerful emotional capabilities Creating Synthetic Emotions through Technological and Robotic Advancements compiles progressive research in the emerging and groundbreaking fields of artificial emotions affective computing and sociable robotics that allow humans to begin the once impossible seeming task of interacting with robots systems devices and agents This landmark volume brings together expert international researchers to expound upon these topics as synthetic emotions move toward becoming a daily reality

Antenna-in-Package Technology and Applications Duixian Liu, Yueping Zhang, 2020-03-03 A comprehensive guide to antenna design manufacturing processes antenna integration and packaging Antenna in Package Technology and Applications contains an introduction to the history of AiP technology It explores antennas and packages thermal analysis and design as well as measurement setups and methods for AiP technology The authors well known experts on the topic explain why microstrip patch antennas are the most popular and describe the myriad constraints of packaging such as electrical performance thermo mechanical reliability compactness manufacturability and cost The book includes information on how the choice of interconnects is governed by JEDEC for automatic assembly and describes low temperature co fired ceramic high density interconnects fan out wafer level packaging based AiP and 3D printing based AiP The book includes a detailed discussion of the surface laminar circuit based AiP designs for large scale mm wave phased arrays for 94 GHz

imagers and 28 GHz 5G New Radios Additionally the book includes information on 3D AiP for sensor nodes near field wireless power transfer and IoT applications This important book Includes a brief history of antenna in package technology Describes package structures widely used in AiP such as ball grid array BGA and quad flat no leads QFN Explores the concepts materials and processes designs and verifications with special consideration for excellent electrical mechanical and thermal performance Written for students in electrical engineering professors researchers and RF engineers Antenna in Package Technology and Applications offers a guide to material selection for antennas and packages antenna design with manufacturing processes and packaging constraints antenna integration and packaging

Proceedings of the First International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’16) Ajith Abraham,Sergey Kovalev,Valery Tarassov,Václav Snášel,2016-05-10 This volume of Advances in Intelligent Systems and Computing contains papers presented in the main track of IITI 2016 the First International Conference on Intelligent Information Technologies for Industry held in May 16 21 in Sochi Russia The conference was jointly co organized by Rostov State Transport University Russia and V B Technical University of Ostrava Czech Republic with the participation of Russian Association for Artificial Intelligence RAAI and Russian Association for Fuzzy Systems and Soft Computing RAFSSC The volume is devoted to practical models and industrial applications related to intelligent information systems The conference has been a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries Nevertheless some theoretical talks concerning the state of the art in intelligent systems and soft computing are included in the proceedings as well

Disability Informatics and Web Accessibility for Motor Limitations Kouroupetroglou, Georgios,2013-08-31 As technology becomes an increasingly vital aspect of modern social interaction the field of disability informatics and web accessibility has made significant progress in consolidating theoretical approaches and exploring new application domains for those with motor and cognitive disabilities Disability Informatics and Web Accessibility for Motor Limitations explores the principles methods and advanced technological solutions in the use of assistive technologies to enable users with motor limitations This book is essential for academia industry and various professionals in fields such as web application designers rehabilitation scientists ergonomists and teachers in inclusive and special education This publication is integrated with its pair book Assistive Technologies and Computer Access for Motor Disabilities

Intelligent Virtual Agents Jonas Beskow,Christopher Peters,Ginevra Castellano,Carol O'Sullivan,Iolanda Leite,Stefan Kopp,2017-08-24 This book constitutes the proceedings of the 17th International Conference on Intelligent Virtual Agents IVA 2017 held in Stockholm Sweden in August 2017 The 30 regular papers and 31 demo papers presented in this volume were carefully reviewed and selected from 78 submissions The annual IVA conference represents the main interdisciplinary scientific forum for presenting research on modeling developing and evaluating intelligent virtual agents IVAs with a focus on communicative abilities and social behavior

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