

Human Monitoring Smart Health And Assisted Living

Human Monitoring, Smart Health and Assisted Living Sauro Longhi,Andrea Monteriù,Alessandro Freddi.2017-05-25 This book covers the three main scientific and technological areas critical for improving people's quality of life - namely human monitoring, smart health and assisted living - from both the research and development points of view.

Makers at School, Educational Robotics and Innovative Learning Environments David Scaradozzi,Lorenzo Guasti,Margherita Di Stasio,Beatrice Miotti,Andrea Monteriù,Paulo Blikstein.2021-12-10 This open access book contains observations, outlines, and analyses of educational robotics methodologies and activities, and developments in the field of educational robotics emerging from the findings presented at FabLearn Italy 2019, the international conference that brought together researchers, teachers, educators and practitioners to discuss the principles of Making and educational robotics in formal, non-formal and informal education. The editors' analysis of these extended versions of papers presented at FabLearn Italy 2019 highlight the latest findings on learning models based on Making and educational robotics. The authors investigate how innovative educational tools and methodologies can support a novel, more effective and more inclusive learner-centered approach to education. The following key topics are the focus of discussion: Makerspaces and Fab Labs in schools, a maker approach to teaching and learning; laboratory teaching and the maker approach, models, methods and instruments; curricular and non-curricular robotics in formal, non-formal and informal education; social and assistive robotics in education; the effect of innovative spaces and learning environments on the innovation of teaching, good practices and pilot projects.

Enhanced Living Environments Ivan Ganchev,Nuno M. Garcia,Ciprian Dobre,Constandinos X. Mavromoustakis,Rossitza Goleva.2019-01-18 This open access book was prepared as a Final Publication of the COST Action IC1303 "Algorithms, Architectures and Platforms for Enhanced Living Environments (AAPELE)". The concept of Enhanced Living Environments (ELE) refers to the area of Ambient Assisted Living (AAL) that is more related with Information and Communication Technologies (ICT). Effective ELE solutions require appropriate ICT algorithms, architectures, platforms, and systems, having in view the advance of science and technology in this area and the development of new and innovative solutions that can provide improvements in the quality of life for people in their homes and can reduce the financial burden on the budgets of the healthcare providers. The aim of this book is to become a state-of-the-art reference, discussing progress made, as well as prompting future directions on theories, practices, standards, and strategies related to the ELE area. The book contains 12 chapters and can serve as a valuable reference for undergraduate students, post-graduate students, educators, faculty members, researchers, engineers, medical doctors, healthcare organizations, insurance companies, and research strategists working in this area.

Internet of Things and Advanced Application in Healthcare Reis, Catarina I.,Maximiano, Marisa da Silva.2016-10-25 The ubiquitous nature of the Internet of Things allows for enhanced connectivity between people in modern society. When applied to various industries, these current networking capabilities create opportunities for new applications. Internet of Things and Advanced Application in Healthcare is a critical reference source for emerging research on the implementation of the latest networking and technological trends within the healthcare industry. Featuring in-depth coverage across the broad scope of the Internet of Things in specialized settings, such as context-aware computing, reliability, and healthcare support systems, this publication is an ideal resource for professionals, researchers, upper-level students, practitioners, and technology developers seeking innovative material on the Internet of Things and its distinct applications.

Algorithms for Fault Detection and Diagnosis Francesco Ferracuti, Alessandro Freddi, Andrea Monteriù. 2021-03-19 Due to the increasing demand for security and reliability in manufacturing and mechatronic systems, early detection and diagnosis of faults are key points to reduce economic losses caused by unscheduled maintenance and downtimes, to increase safety, to prevent the endangerment of human beings involved in the process operations and to improve reliability and availability of autonomous systems. The development of algorithms for health monitoring and fault and anomaly detection, capable of the early detection, isolation, or even prediction of technical component malfunctioning, is becoming more and more crucial in this context. This Special Issue is devoted to new research efforts and results concerning recent advances and challenges in the application of "Algorithms for Fault Detection and Diagnosis", articulated over a wide range of sectors. The aim is to provide a collection of some of the current state-of-the-art algorithms within this context, together with new advanced theoretical solutions.

Enhanced Living Environments Rossitza Ivanova Goleva, Ivan Ganchev, Ciprian Dobre, Nuno Garcia, Carlos Valderrama. 2017-11-24 The book reviews developments in the following fields: enhanced living environments; socioecological psychology; pervasive sensing; social connectedness; information ethics; communication ethics; smart personal environments; stress-level monitoring; Big Data healthcare system; healthcare information searching; Internet; wireless body area networks; AALaaS platform; ELEaaS platform; linear wireless sensor networks; protocols; next-generation networks; cyber-physical systems; health monitoring; wearable healthcare; and after-stroke home rehabilitation.

Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing Management Association, Information Resources. 2021-01-25 Distributed systems intertwine with our everyday lives. The benefits and current shortcomings of the underpinning technologies are experienced by a wide range of people and their smart devices. With the rise of large-scale IoT and similar distributed systems, cloud bursting technologies, and partial outsourcing solutions, private entities are encouraged to increase their efficiency and offer unparalleled availability and reliability to their users. The Research Anthology on Architectures, Frameworks, and Integration Strategies for Distributed and Cloud Computing is a vital reference source that provides valuable insight into current and emergent research occurring within the field of distributed computing. It also presents architectures and service frameworks to achieve highly integrated distributed systems and solutions to integration and efficient management challenges faced by current and future distributed systems. Highlighting a range of topics such as data sharing, wireless sensor networks, and scalability, this multi-volume book is ideally designed for system administrators, integrators, designers, developers, researchers, academicians, and students.

Wireless Technologies for Ambient Assisted Living and Healthcare: Systems and Applications Lazakidou, Athina, Siassiakos, Konstantinos, Ioannou, Konstantinos. 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.

Information and Communication Technologies for Ageing Well and e-Health Carsten Röcker, John O'Donoghue, Martina Ziefle, Markus Helfert, William Molloy. 2017-07-18 This book constitutes the thoroughly refereed proceedings of the International Conference on Communication Technologies for Ageing Well and e-Health, ICT4AWE 2016, held in Rome, Italy, in April 2016. The 8 full papers presented were carefully reviewed and selected from 39 submissions. The papers present relevant trends of current research on ageing well and e-health, including: ambient assisted living, mobile assistive technology, lifestyle engineering and life quality, electronic health records, security and privacy in e-Health, smart environments, home care and remote monitoring.

Proceedings of International Conference on Recent Trends in Machine Learning, IoT, Smart Cities and Applications Vinit Kumar Gunjan, Jacek M. Zurada. 2020-10-17 This book gathers selected research papers presented at the International Conference on Recent Trends in Machine

Learning, IOT, Smart Cities & Applications (ICMISC 2020), held on 29–30 March 2020 at CMR Institute of Technology, Hyderabad, Telangana, India. Discussing current trends in machine learning, Internet of things, and smart cities applications, with a focus on multi-disciplinary research in the area of artificial intelligence and cyber-physical systems, this book is a valuable resource for scientists, research scholars and PG students wanting formulate their research ideas and find the future directions in these areas. Further, it serves as a reference work anyone wishing to understand the latest technologies used by practicing engineers around the globe.

Body Area Networks. Smart IoT and Big Data for Intelligent Health Management Masood Ur Rehman,Ahmed Zoha.2022-02-10 This book constitutes the refereed post-conference proceedings of the 16th International Conference on Body Area Networks, BodyNets 2021, held in October 2021. The conference was held virtually due to the COVID-19 pandemic. The 21 papers presented were selected from 44 submissions and issue new technologies to provide trustable measuring and communications mechanisms from the data source to medical health databases. Wireless body area networks (WBAN) are one major element in this process. Not only on-body devices but also technologies providing information from inside a body are in the focus of this conference. Dependable communications combined with accurate localization and behavior analysis will benefit WBAN technology and make the healthcare processes more effective.

Smart Technology for Aging, Disability, and Independence William C. Mann.2005-07-22 Independent living with smart technologies Smart Technology for Aging, Disability, and Independence: The State of the Science brings together current research and technological developments from engineering, computer science, and therehabilitation sciences, detailing how its applications can promotecontinuing independence for older persons and those withdisabilities. Leading experts from multiple disciplines worldwide havecontributed to this volume, making it the definitive resource. Thetext begins with a thorough introduction that presents importantconcepts, defines key terms, and identifies demographic trends atwork. Using detailed product descriptions, photographs andillustrations, and case studies, subsequent chapters discusscutting-edge technologies, including: * Wearable systems * Human-computer interactions * Assisted vision and hearing * Smart wheelchairs * Handheld devices and smart phones * Visual sensors * Home automation * Assistive robotics * In-room monitoring systems * Telehealth After considering specific high-technology solutions, the textexamines recent trends in other critical areas, such as basicassistive technologies, driving, transportation and communitymobility, home modifications and design, and changing standards ofelder care. Students and professionals in the rehabilitation sciences, healthcare providers, researchers in computer science and engineering,and non-expert readers will all appreciate this text's thoroughcoverage and clear presentation of the state of the science.

Usability, Accessibility and Ambient Assisted Living Alexandra Queirós,Nelson Pacheco da Rocha.2019-01-21 Worldwide, the population ageing is a reality. The concept of Active Ageing, adopted by the World Health Organization, aims to guarantee quality ageing and appears as a strategy to solve this demographic challenge. The technological solutions might have a key role in the promotion of human functioning and in the mitigation of disabilities, particularly those resulting from the natural ageing process. This perspective is evident in the development of Ambient Assisted Living (AAL) solutions. In this context, it is relevant to know about the recent developments in AAL and discuss future trends and challenges in this area. One of the objectives of this book is to do a systematic literature review on AAL, not only considering the technology used, but also the health condition that is intended to improve. For this purpose, we consider the human functioning, in particular the conceptual model of International Classification of Functioning, Disability and Health (ICF). Considering that the ICF conceptual framework is accepted within the healthcare domain, the use of its concepts and terminologies to promote multidisciplinary approaches for AAL solutions development processes can help to overcome difficulties of communication between users, careers and technological developers. AAL solutions must consider in their development the needs of the person that will use AAL solutions. The development must be user-centred and usability questions cannot be forgotten. In addition, the acceptance of the AAL solutions is closely related to the quality

of the systems, so it is necessary to appropriately assess these solutions.

Digital Cities Roadmap Anand Nayyar, Arun Solanki, Adarsh Kumar. 2021-03-29 DIGITAL CITIES ROADMAP This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is an objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. The advent of Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights smart automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research community, to have a deep understanding and the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart city has also a focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and industry professionals interested in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities.

Internet of Things and Smart Environments Seyed Shahrestani. 2017-07-19 This book is focused on the Internet of Things (IoT) services and smart environments that can be of assistance to the elderly and individuals living with dementia or some sensory impairment. The book outlines the requirements of the systems that aim to furnish some digital sensory or cognitive assistance to the individuals and their caregivers. Internet of Things and Smart Environments: Assistive Technologies for Disability, Dementia, and Aging covers the important evolutions of the IoT, the sensors, actuators, wireless communication and pervasive computing systems, and other enabling technologies that power up this megatrend infrastructure. The use of the IoT-based systems in improving the conventional assistive technologies and provisions of ambient assisted living are also covered. The book takes an impartial, and yet holistic, view to providing research insights and inspirations for more development works in the areas related to assistive IoT. It will show the potentials of using normally available interactive devices, like smartphones or smart TVs, which can be supplemented with low-cost gadgets or apps to provide assistive capabilities. It aims to accentuate the need for taking a comprehensive and combinatory view of the comprising topics and approaches that are based on the visions and ideas from all stakeholders. The book will examine these points and considerations to conclude with recommendations for future development works and research directions. This book can be of value to a diverse array of audience. The researchers and developers in healthcare and medicine, aged care and disability services, as well as those working in the IoT-related fields, may find many parts of this book useful and stimulating. It can be of great value to postgraduate and research students working in these areas. It can also be adapted for use in upper-level classroom courses relevant to communication and smart technologies, IoT applications, and assistive technologies. Many parts of the book can be of interest to the elderly and individuals living with a disability, as well as their families and caregivers. From an industry perspective, it can be of interest to software, hardware, and particularly app developers working on the IoT applications, smart homes and environments, and assistive technologies for the elderly and people living with disability or dementia.

Ambient Assisted Living Alice Bettelli, Andrea Monteriù, Luciano Gamberini. 2022-07-28 This book provides state-of-the-art information on ambient assisted living (AAL), and focuses on technologies, services, living spaces, policies, and interventions to promote health, improve quality of life, and active aging. It includes various research contributions, case studies, and projects where assistive technologies are successfully applied in the field, and it covers a wide range of topics: Tailoring products and services to the Aging society, Bio-data and Artificial sensing AAL scenarios, Cognition,

and Technologies, and Designing for Inclusion and Well-Being. The volume gathers the refereed proceedings of the 11th Italian Forum on Ambient Assisted Living (AAL), ForItAAL2020. This annual event involves companies, researchers, and stakeholders involved in the field of Ambient Assisted Living, it took place online due to the pandemic situation of Covid-19, and was organized by the University of Padua through the Human Inspired Technologies Research Centre and the Regional Innovative Network "ICT for Smart and Sustainable Living" with the contribution of the Smart Living Technologies' Cluster. With its wide-ranging contributions to the topic, the book will inspire the readers and the researchers to continue their exploration of AAL technologies to support the development of products and services that make a real difference in people's daily lives.

Recent Advances in Ambient Assisted Living Wei Chen, Juan Carlos Augusto, Fernando Seoane, Fedor Lehocki, Klaus-Hendrik Wolf, Johan Arends, Constantin Ungureanu, Reiner Wichert. 2015
Recent advances in the field of ambient assistive living have addressed the integration of assistive technologies, e-health and personalized healthcare with the aim of enabling improved social experience as well as achieving better health outcomes. This book focuses on ambient assisted living systems and services for healthcare, a multi-disciplinary field encompassing areas such as electrical engineering, computer science, user-centered design and medicine. The book is divided into three parts: personalized healthcare monitoring technologies; ICT for ambient assistive living; and healing environments. The topics covered include sensor systems, wearable technologies, patient monitoring, home monitoring, personalized healthcare, user-centered design, ethical challenges and clinical evaluation. Providing an overview of new developments in e-health and personalized healthcare, the book will be of interest to engineers, designers and others working in the healthcare industry, and to medical practitioners.

Interdisciplinary Assessment of Personal Health Monitoring S. Schmidt, O. Rienhoff. 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.

Smart Home Technologies and Services for Geriatric Rehabilitation Mohamed-Amine Choukou, Shabbir Syed-Abdul. 2021-10-18
Smart Home Technologies and Services for Geriatric Rehabilitation provides a toolbox for healthcare stakeholders involved in decision-making for the design, development and implementation of smart home solutions. The book provides an in-depth look at the field of smart homes with readers from both research and practice in mind. It addresses the roles and contributions of smart home technologies and services in supporting geriatric rehabilitation and discusses the challenges of current practice and future innovation, especially with wireless technology and 5G advancements. This reference offers advice on how to implement solutions in the home, and how to framework the modalities of modifying and measuring responses to rehabilitation interventions in geriatric populations. Acceptability, usability and adherence are all considered. Content coverage includes how to navigate policies, regulations, standards and how to build business models. The book's editorial team is multidisciplinary, multisectoral, and from very

different regions of the world, thus ensuring a comprehensive scope and global approach. Offers an overview on the state-of-the-art, advanced technologies used in home healthcare to improve patient safety and care Explores the challenges of current practices and discusses new perspectives for future innovations in geriatric rehabilitation services Combines the technical aspects of computer science and technology design with the practical aspects of care giving

Ambient Assisted Living Andrea Monteriù,Alessandro Freddi,Sauro Longhi.2021-02-16 This book documents the state of the art in the field of ambient assisted living (AAL), highlighting technologies and services which aim to improve health and quality of life, while promoting active aging. The coverage is wide ranging, with topical sections devoted to human monitoring, smart living services, biomedical and robotic solutions, including different case studies and real-world examples where assistive technologies are successfully applied. The book comprises a selection of the best, refereed papers presented at the 10th Italian Forum on Ambient Assisted Living (ForItAAL), held in Ancona, Italy, in June 2019, which represents the annual event that involves the Ambient Assisted Living Italian Association and brought together researchers, technology teams, policy makers, and stakeholders. Readers will find that the expert contributions offer clear insights into the ways in which the most recent exciting advances may be expected to assist in addressing the needs of the elderly and those with chronic conditions.

Distributed Computing and Monitoring Technologies for Older Patients Juris Klonovs,Mohammad Ahsanul Haque,Volker Krüger,Kamal Nasrollahi,Karen Andersen-Ranberg,Thomas B.

Moeslund,Erika Geraldina Spaich.2016-01-21 This book summarizes various approaches for the automatic detection of health threats to older patients at home living alone. The text begins by briefly describing those who would most benefit from healthcare supervision. The book then summarizes possible scenarios for monitoring an older patient at home, deriving the common functional requirements for monitoring technology. Next, the work identifies the state of the art of technological monitoring approaches that are practically applicable to geriatric patients. A survey is presented on a range of such interdisciplinary fields as smart homes, telemonitoring, ambient intelligence, ambient assisted living, gerontechnology, and aging-in-place technology. The book discusses relevant experimental studies, highlighting the application of sensor fusion, signal processing and machine learning techniques. Finally, the text discusses future challenges, offering a number of suggestions for further research directions.

The Role of Human Factors in Home Health Care National Research Council,Division of Behavioral and Social Sciences and Education,Committee on Human-Systems Integration,Committee on the Role of Human Factors in Home Health Care.2010-11-14 The rapid growth of home health care has raised many unsolved issues and will have consequences that are far too broad for any one group to analyze in their entirety. Yet a major influence on the safety, quality, and effectiveness of home health care will be the set of issues encompassed by the field of human factors research-the discipline of applying what is known about human capabilities and limitations to the design of products, processes, systems, and work environments. To address these challenges, the National Research Council began a multidisciplinary study to examine a diverse range of behavioral and human factors issues resulting from the increasing migration of medical devices, technologies, and care practices into the home. Its goal is to lay the groundwork for a thorough integration of human factors research with the design and implementation of home health care devices, technologies, and practices. On October 1 and 2, 2009, a group of human factors and other experts met to consider a diverse range of behavioral and human factors issues associated with the increasing migration of medical devices, technologies, and care practices into the home. This book is a summary of that workshop, representing the culmination of the first phase of the study.

Internet of Things Based Smart Healthcare Suparna Biswas,Chandreyee Chowdhury,Biswaranjan Acharya,Chuan-Ming Liu.2022-07-18 This book provides both the developers and the users with an awareness of the challenges and opportunities of advancements in healthcare paradigm with the application and availability of advanced hardware, software, tools, technique or algorithm development stemming the Internet of Things. The book helps readers to bridge the gap in their

three understanding of three major domains and their interconnections: Hardware tested and software APP development for data collection, intelligent protocols for analysis and knowledge extraction. Medical expertise to interpret extracted knowledge towards disease prediction or diagnosis and support. Security experts to ensure data correctness for precise advice. The book provides state-of-the-art overviews by active researchers, technically elaborating healthcare architectures/frameworks, protocols, algorithms, methodologies followed by experimental results and evaluation. Future direction and scope will be precisely documented for interested readers.

Designing Telehealth for an Aging Population Neil Charness, George Demiris, Elizabeth Krupinski. 2011-10-11 As simple and straightforward as two health professionals conferring over the telephone or as complex and sophisticated as robotic surgery between facilities at different ends of the globe, telehealth is an increasingly frequent component in healthcare. A primer on the human factors issues that can influence how older adults interact with telehealth systems, *Designing Telehealth for an Aging Population: A Human Factors Perspective* examines the new ways patients and healthcare providers communicate to achieve the same or better outcomes than with traditional face-to-face healthcare. The authors examine older adult capabilities and provide standards and guidelines for telehealth design, enlivened by clinical examples and tutorials on human factors methodologies. They take a systematic look at how the use of human factors principles can facilitate the successful development, deployment, and maintenance of telehealth technology to better serve the aging population. The authors have carefully stayed away from academic writing, distilling their experience in the form of basic observations and principles drawn from their work. They include suggested readings at the end of each chapter that supply the research underpinning their recommendations. The first reference to cover older adult users in an area that will only get bigger, this book sets itself apart by providing focused coverage of the human factors issues specific to aging populations and practical advice on how to accommodate them.

Ambient Assisted Living and Enhanced Living Environments Ciprian Dobre, Constandinos Mavromoustakis, Nuno Garcia, Rossitza Ivanova Goleva, George Mastorakis. 2016-11-02 *Ambient Assisted Living and Enhanced Living Environments: Principles, Technologies and Control* separates the theoretical concepts concerning the design of such systems from their real-world implementations. For each important topic, the book bridges theory and practice, introducing the instruments needed by professionals in their activities. To this aim, topics are presented in a logical sequence, with the introduction of each topic motivated by the need to respond to claims and requirements from a wide range of AAL/ELE applications. The advantages and limitations of each model or technology are presented through concrete case studies for AAL/ELE systems. The book also presents up-to-date technological solutions to the main aspects regarding AAL/ELE systems and applications, a highly dynamic scientific domain that has gained much interest in the world of IT in the last decade. In addition, readers will find discussions on recent AAL/ELE technologies that were designed to solve some of the thorniest business problems that affect applications in areas such as health and medical supply, smart city and smart housing, Big Data and Internet of Things, and many more. Introduces readers to technologies supporting the development of Ambient Assisted Living applications Explains state-of-the-art technological solutions for the main issues regarding AAL and Enhanced Living Environments Reports the development process of scientific and commercial applications and platforms that support AAL and ELE Identifies the advanced solutions in the context of Enhanced Living Environments

Introduction to Smart eHealth and eCare Technologies Sari Merilampi, Andrew Sirkka. 2016-11-18 Both the demographics and lack of resources in the health and well-being industry are increasingly forcing us to find alternative solutions for individualized health and social care. In an effort to address this issue, smart technologies present enormous potential in solving this challenge. This book strives to enhance communication and collaboration between technology and health and social care sectors. The reader will receive an extensive overview of the possibilities of various technologies in care sectors (including ICT, electronics, automation, and sensor technology) written by experts from various countries. It will prove extremely useful for engineers developing well-being

related systems, software, or other devices that can be used by professionals working with people with specialist needs, well-being and health service providers, educators teaching related courses, and upper level undergraduate students and graduate student studying related topics. The technology focus of the book is widespread and addresses elderly care and hospitals, in addition to solutions for various user groups, devices, and technologies. Beyond serving as a resource for nurses and people working in care sector, the book is also meant to give guidelines for engineers developing person-centered systems by exploring the integration of these technologies into service systems.

Smart Homes and Health Telematics Cathy Bodine, Sumi Helal, Tao Gu, Mounir

Mokhtari. 2014-12-26 This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Smart Homes and Health Telematics, ICOST 2014, held in Denver, CO, USA in June 2014. The 21 revised full papers presented together with three keynote papers and 9 short papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on Design and Usability, assistive and sentient environments, cognitive technology, activity recognition, context and situation awareness, Health IT and short contributions.

Digital Cities Roadmap Arun Solanki, Adarsh Kumar, Anand Nayyar. 2021-05-04 DIGITAL CITIES ROADMAP This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is an objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. The advent of Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights smart automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research community, to have a deep understanding and the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart city has also a focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and industry professionals interested in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities.

Smart Health Xiaolong Zheng, Daniel Dajun Zeng, Hsinchun Chen, Scott J. Leischow. 2016-01-22 This book constitutes the thoroughly refereed post-conference proceedings of the International Conference for Smart Health, ICSH 2015, held in Phoenix, AZ, USA, in November 2015. The 33 papers presented together were carefully reviewed and selected from 43 submissions. The conference focused on topics and issues including medical monitoring and information extraction, clinical and medical data mining, health data analysis and management, big data and smart health, and healthcare intelligent systems and clinical practice.

Ambient Assisted Living. ICT-based Solutions in Real Life Situations Ian Cleland, Luis Guerrero, José Bravo. 2015-11-20 This book constitutes the refereed proceedings of the 7th International Work-Conference on Ambient Assisted Living, IWAAL 2015, held in Puerto Varas, Chile, in December 2015. The 20 full papers presented with 7 short papers were carefully reviewed and selected from 31 submissions. The focus of the papers is on following topics: ambient assisted living for tele-care and tele-rehabilitation; ambient assisted living environments; behaviour analysis and activity recognition; sensing for health and wellbeing; human interaction and perspectives in ambient assisted living solutions.

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.

AALIANCE Ambient Assisted Living Roadmap Seventh Framework Programme (European Commission).2010 Title page -- AALIANCE - The European Ambient Assisted Living Innovation Platform -- Foreword -- Executive Summary -- Table of contents -- List of Roadmaps -- List of Scenarios -- List of Figures -- List of Tables -- Introduction -- Structure of the Roadmap -- Roadmapping Process -- Scope of AAL -- Technological trends and barriers in AAL -- Technological trends -- Technological barriers -- AAL for persons -- AAL for health, rehabilitation and care -- Support for chronic disease management -- Biorobotics for neuro-rehabilitation -- Support for multi-disciplinary care teams -- Consolidated view -- Coping with impairments and disabilities -- Motor disabilities -- Personal activity management and monitoring -- Physical activity -- Mental activity -- Consolidated view -- Personal and home safety and security -- Open issues -- Safety in the face of specific threats -- Activities of Daily Life oriented support -- Other common activities -- Shopping -- Eat and drink -- Social interaction and communication -- AAL in the community -- Social inclusion -- Participation in community activities -- Creativity, hobbies and sports -- Cultural and experience exchanges -- Entertainment and leisure -- Training the brain -- Exercise and gaming -- Mobility -- Supporting individual physical mobility -- AA-driving (cars/private vehicles) -- Public transport -- AAL at work -- Background -- Work ability -- Employers' attitudes to older workers -- Training in and for the workplace -- Issues of work-life balance -- Needs of older workers in the workplace -- Access to working space -- Assuring environmental working conditions -- Support for working -- Prevention of diseases and injuries -- Safety and health regulations -- Enabling Technologies -- Sensing -- Sensors for safety and security in the environments -- Sensors for monitoring persons -- Sensor networks.

Active and Assisted Living Francisco Florez-Revuelta,Alexandros Andre Chaaraoui.2016-08-10 This is a broad introductory handbook, for academic and industry researchers, covering the major technologies and applications in Ambient Assisted Living (AAL). Set out in three main sections: Part 1 focuses on current state-of-the-art technology and critical analysis: Part 2 covers the applications of these technologies; and Part 3 includes general issues such as usability, accessibility, privacy and ethics. With contributions from around the world, topics covered include: smart homes, environmental sensors and data fusion, wearable sensors, devices and smart clothes, standards and interoperability, computer vision for AAL, reasoning systems, person-environment interaction, networks and integration platforms, assistive and service robotics, tele-care and telehealth, gait analysis, fall prevention, detection and intervention, prevention and management of chronic conditions, support to activities of daily living, mental health and cognitive stimulation, indoor and outdoor mobility, well being, social interaction and isolation, usability, accessibility, privacy and ethical issues. Active and Assisted Living is an essential resource for researchers in academia and industry developing AAL technologies. Students, healthcare practitioners and engineers, in this cross-disciplinary field, which includes robotics and automation, telecommunications, computing and healthcare, will find this handbook of use.

Ambient Assisted Living Niccolò Casiddu,Claudia Porfirione,Andrea Monteriù,Filippo Cavallo.2019-01-30 This book documents the state of the art in the field of ambient assisted living (AAL), highlighting the impressive potential of novel methodologies and technologies to enhance

well-being and promote active ageing. It covers a broad range of topics, with sections on technological sensors and platforms, social robotics for assistance, assistance and care applications, health and medical support methodologies and technologies, as well as the analysis, modelling and design of AAL services. The book comprises a selection of the best papers presented at the 8th Italian Forum on Ambient Assisted Living (ForitAAL 2017), which was held in Genoa, Italy, in June 2017 and brought together researchers, technology teams and professional associations, as well as representatives of the Italian regions and advisors to the Italian Ministry of Education, University and Research, with the goal of developing a consensus on how to improve provisions for the elderly and impaired. The respective contributions offer valuable insights into how the latest advances can help address the needs of the elderly and those with chronic health conditions. They also underscore the need for AAL to continue moving toward multidisciplinary integration, so as to embrace the various disciplines that place the user of services at the centre of the design process.

Is Ambient Assisted Living the Panacea for Ageing Population? Marco D'Angelantonio, John Oates. 2013 The ageing population of Europe is a well-documented phenomenon and there is general agreement that it has serious implications for all European citizens as well as for policymakers and politicians. The current paradigm of caring for elderly citizens in residential homes is becoming untenable and it is also unpopular with many elderly people themselves. New ways of caring which engage and empower older adults more actively, and are also more cost-effective, must be found. The four-year DREAMING elDeRly-friEndly Alarm handling and MonitorING project carried out randomized controlled trials across six pilot sites to assess the impact

Digital Methods and Tools to Support Healthy Ageing Pradeep Kumar Ray, Siaw-Teng Liaw, J. Artur Serrano. 2021-10-29 While digital transformations are happening in all walks of society and business, there is real potential for improving the quality of life of the elderly using digital methods and tools. Digital health promises to deliver better healthcare quality cost-efficiently to more people, especially in the case of lifestyle diseases such as diabetes. It will achieve this by combining the benefits of telehealth, eHealth, data-driven personalised healthcare, and evidence-based care. This book presents a discussion of evolving digital technologies, such as smart phones and assisted living, and innovative digitally based services that are helping improve the quality and cost of healthcare for the elderly.

Wellness Protocol for Smart Homes Hemant Ghayvat, Subhas Chandra Mukhopadhyay. 2017-01-05 This book focuses on the development of wellness protocols for smart home monitoring, aiming to forecast the wellness of individuals living in ambient assisted living (AAL) environments. It describes in detail the design and implementation of heterogeneous wireless sensors and networks as applied to data mining and machine learning, which the protocols are based on. Further, it shows how these sensor and actuator nodes are deployed in the home environment, generating real-time data on object usage and other movements inside the home, and therefore demonstrates that the protocols have proven to offer a reliable, efficient, flexible, and economical solution for smart home systems. Documenting the approach from sensor to decision making and information generation, the book addresses various issues concerning interference mitigation, errors, security and large data handling. As such, it offers a valuable resource for researchers, students and practitioners interested in interdisciplinary studies at the intersection of wireless sensing processing, radio communication, the Internet of Things and machine learning, and in how they can be applied to smart home monitoring and assisted living environments.

IoT in Healthcare and Ambient Assisted Living Gonçalo Marques, Akash Kumar Bhoi, Victor Hugo C. de Albuquerque, Hareesha K.S.. 2021-01-04 This book presents the state of the art of Internet of Things (IoT) from the perspective of healthcare and Ambient Assisted Living (AAL). It discusses the emerging technologies in healthcare services used for healthcare professionals and patients for enhanced living environments and public health. The topics covered in this book include emerging eHealth IoT applications, Internet of Medical Things, health sensors, and wearable sensors for pervasive and personalized healthcare, and smart homes applications for enhanced health and well-being. The book also presents various ideas for the design and development of IoT solutions for

healthcare and AAL. It will be useful for bioengineers and professionals working in the areas of healthcare as well as health informatics.

Workshop Proceedings of the 9th International Conference on Intelligent Environments

J.A. Botía, D. Charitos. 2013-07-26 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 9th International Conference on Intelligent Environments (IE '13), held in Athens, Greece, in July 2013. The workshops which were presented in the context of this 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 artificial intelligence techniques for ambient intelligence; applications of affective computing in intelligent environments; smart offices and other workplaces; intelligent environment technology in education for creative learning; museums as intelligent environments; the application of intelligent environment technologies in the urban context for creating more sociable, intelligent cities and for constructing urban intelligence. 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.

Inclusive Smart Cities and e-Health Antoine Geissbühler, Jacques Demongeot, Mounir

Mokhtari, Bessam Abdulrazak, Hamdi Aloulou. 2015-05-29 This book constitutes the proceedings of the 13th International Conference on Smart Homes and Health Telematics, ICOST 2015, held in Geneva, Switzerland, in June 2015. The 20 full papers and 16 short contributions included in this volume were carefully reviewed and selected from 45 submissions. They were organized in topical sections named: design and usability; assistive and sentient environments; human behavior and activities monitoring, and health IT and supportive technology. The book also contains 3 invited talks.

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