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Security and Privacy Applications for Smart City Development Sharvari Chandrashekar Tamane 2020-10-01 This book explores the fundamentals of smart cities along with issues, controversies, problems and applications concerning security and privacy in smart city development. Future smart cities must incorporate innovations like smart rainwater harvesting, smart street lighting, digital identity management, solar energy, intelligent transport systems and emerging communication applications. The target audience of the book includes professionals, researchers, academics, advanced-level students, technology developers, doctors and biologists working in the field of smart city applications. Professionals will find innovative ideas for marketing and research, while developers can use various technologies like IoT and block chain to develop the applications discussed here. As the book shows, by integrating new technologies, the cities of the future are becoming a reality today.

Financial Services and General Government Appropriations for 2013 United States. Congress. House. Committee on Appropriations. Subcommittee on Financial Services and General Government 2012
Games and Learning Alliance Manuel Gentile 2019-01-31 This book constitutes the refereed proceedings of the 7th International Conference on Games and Learning Alliance, GALA 2018, held in Palermo, Italy, in December 2018. The 38 revised regular papers presented together with 9 poster papers were carefully reviewed and selected from 68 submissions. The papers cover the following topics: games for skills training; game design; methods and tools; gamification and innovative game approaches.

Shaping the University of the Future Stephen James Marshall 2018-01-02 This book focuses on developing an understanding of the complex interplay of forces acting on individual universities and higher education systems to enable leaders and practitioners to take purposeful and strategic action. It explores the challenging landscape of higher education and the pressures that are reshaping the university as a societal institution, describing the complex interplay of technological, sociological, political and economic forces driving change. The issues analysed are global in scope, reflecting the diversity of contexts, but also the common nature of the challenges facing institutions individually and collectively. The analysis draws on the lessons learnt and evidence from over fifty organisational case studies undertaken by the author over the past decade, exploring organisational change in higher education institutions in New Zealand, Australia, the United States and the United Kingdom, and on his engagement as president of the ACODE organisation with colleagues responsible for learning technological change in Australasia. The book helps institutions respond to technological change purposefully, in ways that build upon a clear understanding of the complex nature of the existing institution, its students and the organisational context.

The Home of the Future Sinan Küfeoğlu 2021-07-01 This book presents an in-depth study to show that a sustainable future urban life is possible. To build a safer and more sustainable future, as humankind, we would like to use more renewable energy, increase energy efficiency, reduce our carbon and water footprints in all economic sectors. The increasing population and humans' ever-increasing demand for consumption pose another question whether the world's resources are sufficient for present and future generations. Fair access to water, energy, and food is the objective for all. In line with the United Nations Sustainable Development Goals, scientists, researchers, engineers, and policymakers worldwide are working hard to achieve these objectives. To answer all these challenges, we would like to introduce the

core of Smart Cities of the future, the building block of the future's urban life: Open Digital Innovation Hub (ODIH). ODIH will serve as the 'Home of the Future', a fully digitalised and smart, self-sustaining building that answers all the motivation we highlight here. In ODIH, we introduce a living space that produces its water, energy, and food by minimising carbon and water footprints thanks to the Internet of Things, Artificial Intelligence, and Blockchain technologies. It will also serve as an open innovation environment for start-ups and entrepreneurs who wish to integrate their solutions into the infrastructure of ODIH and test those in real-time. We believe this will be a true open innovation test-bed for new business models.

Pervasive Design Håkan Gulliksson Services and products are increasingly composed of interconnected computerized things with embedded sensors and interaction capabilities. This trend is evident also in everyday objects and tools and is rapidly changing the way we live our lives. Design work and designers have to keep up with this development and adapt both thinking and tools. The problem is no longer just to design a physical object or interact with a single computational device and design is not even limited to the service embedding the device. Design needs to include all of the above while, importantly, also taking the particular context of use into account. This book presents a framework and a number of tools from a systems perspective that will help the designer take the step from designing a thing or a web site to designing a context aware pervasive service. As a first basis for this, three complementary interactors; Human, Information and Thing, along with the interactions they enable are introduced. This basis is used to infuse a way of thinking on pervasive services that is reapplied also to groups and joint ventures. Services are thoroughly introduced in the book along with their support, ranging from networked infrastructure for communication to cognitive by artificial intelligence. The design process is introduced by a discussion on the goals for design. Usability, value based design and meaningful user experiences are surveyed as guides for better designs. Beginning with the resultant understanding, the design process is staged using the levels of service design, requirement analysis, concept, information, interaction, and appearance design. Relevant tools and an outline of the possible design space of mobile and pervasive applications are given for each level, and the design work is framed by an overall story-based approach. In total the book consists of 658 pages, 112 figures and 218 illustrations. Both text and ideas have improved from the third edition. One year Weiser. Håkan Gulliksson is a lecturer on Interaction technology and Mobile design at Umeå University Sweden. He has been the coordinator for the Master of Science program in Interaction and Design for more than ten years.

ECG2011-Proceedings of the 11th European Conference on EGovernment Maja Klun 2011-01-01
Biometric-Based Physical and Cybersecurity Systems Mohammad S. Obaidat 2018-10-24 This book presents the latest developments in biometrics technologies and reports on new approaches, methods, findings, and technologies developed or being developed by the research community and the industry. The book focuses on introducing fundamental principles and concepts of key enabling technologies for biometric systems applied for both physical and cyber security. The authors disseminate recent research and developing efforts in this area, investigate related trends and challenges, and present case studies and examples such as fingerprint, face, iris, retina, keystroke dynamics, and voice applications. The authors also investigate the advances and future outcomes in research and development in biometric security systems. The book is applicable to students, instructors, researchers, industry practitioners, and related

government agencies staff. Each chapter is accompanied by a set of PowerPoint slides for use by instructors.

Towards Useful Services for Elderly and People with Disabilities Bessam Abdulrazak 2011-06-17 This book constitutes the refereed proceedings of the 9th International Conference on Smart Homes and Health Telematics, ICOST 2011, held in Montreal, Canada, in June 2011. The 25 revised full papers presented together with 16 short papers and 8 student papers were carefully reviewed and selected from 94 submissions. The papers are organized in topical sections on smart home and village; health telematics and healthcare technology; wellbeing, ageing friendly and enabling technology; and medical health telematics and healthcare technology.

Police Services Paresh Wankhade 2015-06-11 This volume provides fresh insights and management understanding of the changing role of policing against the backdrop of massive cuts in public expenditure experienced and the changing landscape of policing. The challenges of funding, training, online-crimes and cultural transformation are now felt globally. The need to learn and adapt from suitable models of police service delivery have never been greater. The book offers critical insights into the theory and practice of strategic and operational management of police services and the related professional and policy aspects. One of the highlight of this volume is to bring together scholarship using experts- academics, practitioners and professionals in the field, to each of the chosen topics. The chapters are based in the practical experiences of the authors and are written in a way that is accessible and suitable for a range of audiences. We are confident that this book will cater to a wider audience to inform policy and practice, both in the UK and internationally. Sir Peter Fahy QPM, Chief Constable, Greater Manchester Police Policing across the world is facing an increasing complexity of demand and public expectation creating new challenges for leadership and management. The contributors to this work are among the leading thinkers in policing and present important new insights into both the past and the way forward. It will be welcomed by all those convinced that radical new approaches are required across the public services. Bill Skelly, Deputy Chief Constable, Devon and Cornwall Police, UK At times it feels that the focus on leadership in the police service is all about what went wrong; the negative influences of a tightly-knit culture; and the almost inevitable rise of the technocrat. It is refreshing to read a book that seeks new insights into the positive influences of police leadership and offers the prospect of a more emotionally aware and spiritually rich approach as to how those insights may be practically employed for the benefit of all in the police family and the communities we serve.

Congressional Record United States. Congress 2009 The Congressional Record is the official record of the proceedings and debates of the United States Congress. It is published daily when Congress is in session. The Congressional Record began publication in 1873. Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States (1789-1824), the Register of Debates in Congress (1824-1837), and the Congressional Globe (1833-1873)

Designing, Developing, and Facilitating Smart Cities Vangelis Angelakis 2016-12-04 This book discusses how smart cities strive to deploy and interconnect infrastructures and services to guarantee that authorities and citizens have access to reliable and global customized services. The book addresses the wide range of topics present in the design, development and running of smart cities, ranging from big data management, Internet of Things, and sustainable urban planning. The authors cover - from concept to practice - both the technical aspects of smart cities enabled primarily by the Internet of Things and the socio-economic motivations and impacts of smart city development. The reader will find smart city deployment motivations, technological enablers and solutions, as well as state of the art cases of smart city implementations and services. · Provides a single compendium of the technological, political, and social aspects of smart cities; · Discusses how the successful deployment of smart Cities requires a unified infrastructure to support the diverse set of applications that can be used towards urban development; · Addresses design, development and running of smart cities, including big data management and Internet of Things applications.

ECEL2013- Proceedings for the 12th European Conference on eLearning Dr Mélanie Ciussi 2013-01-09

Tools for Mobile Multimedia Programming and Development Tjondronegoro, D. 2013-05-31 Mobile devices are rapidly developing into the primary technology for users to work, socialize, and play in a variety

of settings and contexts. Their pervasiveness has provided researchers with the means to investigate innovative solutions to ever more complex user demands. Tools for Mobile Multimedia Programming and Development investigates the use of mobile platforms for research projects, focusing on the development, testing, and evaluation of prototypes rather than final products, which enables researchers to better understand the needs of users through image processing, object recognition, sensor integration, and user interactions. This book benefits researchers and professionals in multiple disciplines who utilize such techniques in the creation of prototypes for mobile devices and applications. This book is part of the Advances in Wireless Technologies and Telecommunication series collection.

ECEL2012-The Proceedings of the 11th European Conference on E-Learning Hans Beldhuis 2012

Research Perspectives on the Role of Informatics in Health Policy and Management El Morr, Christo 2013-07-31 Healthcare providers require timely and accurate information about their patients. As such, a great amount of effort and resources are spent to ensure that the right information is presented to the right people at the right time. Research Perspectives on the Role of Informatics in Health Policy and Management focuses on the advancements of Health Information Science in order to solve current and forthcoming problems in the health sector. Managers, policy makers, researchers, and Masters and PhD students in healthcare related fields will use this book to provide necessary insight on healthcare delivery and also to inspire new ideas and practices to effectively provide patients with the greatest quality care.

Mobile and Blended Learning Innovations for Improved Learning Outcomes Parsons, David 2016-05-03 The integration of technology into educational settings has revolutionized classroom instruction in recent years. By properly utilizing available digital resources, students' learning experiences can be significantly enhanced. Mobile and Blended Learning Innovations for Improved Learning Outcomes is an authoritative reference source for the latest research on the use and benefits of technological tools in contemporary classrooms and showcases how these devices improve the overall learning process. Highlighting the distinctions and interactions between mobile and blended education, this book is ideally designed for practitioners, professionals, academicians, and students interested in the effective implementation of modern technology in the classroom.

Operation of Smart Homes Mehdi Rahmani-Andebili 2021-06-15 This book presents the latest research advancements in the operation of smart homes. It comprises new operation techniques including cooperative distributed energy scheduling, framework to react to malicious cyberattacks, framework for demand-side management, and framework for the design of smart homes to support residents' wellness as well as new optimization techniques such as stochastic model predictive control and multi-time scale optimization. In addition, the book analyzes 11,000 studies that have been indexed in scientific databases and categorizes them based on various data points, including the field and the subject of the research, the name of the institutions, and the nationality of the authors. Presents new operation techniques of smart homes; Introduces new optimization techniques for operation of smart homes; Analyses 11,000 studies and categorizes them based on different data points.

Smart Homes Nagender Kumar Suryadevara 2015-01-02 The book addresses issues towards the design and development of Wireless Sensor Network based Smart Home and fusion of Real-Time Data for Wellness Determination of an elderly person living alone in a Smart Home. The fundamentals of selection of sensor, fusion of sensor data, system design, modelling, characterizations, experimental investigations and analyses have been covered. This book will be extremely useful for the engineers and researchers especially higher undergraduate, postgraduate students as well as practitioners working on the development of Wireless Sensor Networks, Internet of Things and Data Mining.

ECEI2011- 6th European Conference on Innovation and Entrepreneurship Heather Fulford 2011-09-15

The Handbook of Informal Language Learning Mark Dressman 2020-02-03 Provides a comprehensive and unique examination of global language learning outside of the formal school setting Authored by a prominent team of international experts in their respective fields, The Handbook of Informal Language Learning is a one-of-a-kind reference work and it is a timely and valuable resource for anyone looking to explore informal language learning outside of a formal education environment. It features a comprehensive collection of cutting edge research areas exploring the cultural and historical cases of informal language

learning, along with the growing area of digital language learning, and the future of this relevant field in national development and language education. The Handbook of Informal Language Learning examines informal language learning from both theoretical and practical perspectives. Structured across six sections, chapters cover areas of motivation, linguistics, cognition, and multimodality; digital learning, including virtual contexts, gaming, fanfiction, vlogging, mobile devices, and nonformal programs; and media and live contact, including learning through environmental print, tourism/study abroad. The book also provides studies of informal learning in four national contexts, examines the integration of informal and formal classroom learning, and discusses the future of language learning from different perspectives. Edited by respected researchers of computer-mediated communication and second language learning and teacher education Features contributions by leading international scholars reaching out to a global audience Presents an exciting and progressive selection of chapters in a rapidly expanding field of research and teaching Provides a state-of-the-art collection of the theories, as well as the historical, cultural and international cases relating to informal language learning and its future in a digital age Covers 30 key topics that represent pioneering findings and new research The Handbook of Informal Language Learning is an essential resource for researchers, students, and professionals in the fields of language acquisition, English as a second language, and foreign language education.

Design and Application of Quantified Self Approaches for Reflective Learning in the Workplace Rivera Pelayo, Verónica 2015-09-16

Information Literacy: Lifelong Learning and Digital Citizenship in the 21st Century Serap Kurbanoglu 2014-12-13 This book constitutes the refereed proceedings of the European Conference on Information Literacy, ECIL 2014, held in Dubrovnik, Croatia, in October 2014. The 93 revised full papers presented together with two keynotes and one invited paper were carefully reviewed and selected from 283 submissions. The papers are organized in topical sections on theoretical framework; related concepts; research; rights and ethics; children; higher education; education and instruction; assessment and evaluation; libraries; different aspects.

Towards Energy Smart Homes Stephane Ploix 2021-11-11 This book exemplifies how smart buildings have a crucial role to play for the future of energy. The book investigates what already exists in regards to technologies, approaches and solutions both with a scientific and technological point of view. The authors cover solutions for mirroring and tracing human activities, optimal strategies to configure home settings, and generating explanations and persuasive dashboards to get occupants better committed in their home energy managements. Solutions are adapted from the fields of Internet of Things, physical modeling, optimization, machine learning and applied artificial intelligence. Practical applications are given throughout.

The Great American Education-Industrial Complex Anthony G. Picciano 2013-05-07 The Great American Education-Industrial Complex examines the structure and nature of national networks and enterprises that seek to influence public education policy in accord with their own goals and objectives. In the past twenty years, significant changes have taken place in the way various interest groups seek to influence policies and practices in public education in the United States. No longer left to the experience and knowledge of educators, American education has become as much the domain of private organizations, corporate entities, and political agents who see it as a market for their ideas, technologies, and ultimately profits. Picciano and Spring posit that educational technology is the vehicle whereby these separate movements, organizations, and individuals have become integrated in a powerful common entity, and detail how the educational-industrial complex has grown and strengthened its position of influence. This timely, carefully documented, well argued book brings together Picciano's perspective and expertise in the field of technology and policy issues and Spring's in the history and politics of education in a unique critical analysis of the education-industrial complex and its implications for the future.

ECIE2011- 6th European Conference on Innovation and Entrepreneurship Alexandros Kakouris 2011

Oxford Textbook of Neurorehabilitation Volker Dietz 2015 Neurorehabilitation is an expanding field with an increasing clinical impact because of an ageing population. During the last 20 years neurorehabilitation has developed from a discipline with little scientific background, separated from other medical centers, to a

medical entity largely based on the principles of 'evidenced based medicine' with strong ties to basic research and clinical neurology. Today neurorehabilitation is still a 'work in progress' and treatment standards are not yet established for all aspects of neurorehabilitation. There are very few books that address contemporary neurorehabilitation from this perspective. This volume moves the reader from theory to practice. It provides the reader with an understanding of the theoretical underpinnings of neurorehabilitation, as well as a clear idea about how (and why) to approach treatment decisions in individual patients. These clinical recommendations are based on a mix of established evidence and clinical experience that the authors bring to bear on their topics.

Enterprise Architecture for Connected E-Government: Practices and Innovations Saha, Pallab 2012-06-30 "This book addresses the gap in current literature in terms of linking and understanding the relationship between e-government and government enterprise architecture"--Provided by publisher.

Indigenous Pathways, Transitions and Participation in Higher Education Jack Frawley 2017-05-31 This book is open access under a CC BY 4.0 license. This book brings together contributions by researchers, scholars, policy-makers, practitioners, professionals and citizens who have an interest in or experience of Indigenous pathways and transitions into higher education. University is not for everyone, but a university should be for everyone. To a certain extent, the choice not to participate in higher education should be respected given that there are other avenues and reasons to participate in education and employment that are culturally, socially and/or economically important for society. Those who choose to pursue higher education should do so knowing that there are multiple pathways into higher education and, once there, appropriate support is provided for a successful transition. The book outlines the issues of social inclusion and equity in higher education, and the contributions draw on real-world experiences to reflect the different approaches and strategies currently being adopted. Focusing on research, program design, program evaluation, policy initiatives and experiential narrative accounts, the book critically discusses issues concerning widening participation.

Design and Construction of High-Performance Homes Franca Trubiano 2013-03-05 Both professionals and students are increasingly committed to achieving high-performance metrics in the design, construction and operation of residential buildings. This book responds to this demand by offering a comprehensive guide which features: architectural innovations in building skin technologies which make lighter more transparent buildings high performing; energy-free architectural design principles and advances in building-integrated photovoltaics; essential engineering principles, controls and approaches to simulation for achieving net zero; the advantages of integrated design in residential construction and the challenges and opportunities it engenders; detailed case studies of innovative homes which have incorporated low-energy design solutions, new materials, alternative building assemblies, digital fabrication, integrated engineering systems and operational controls. Divided into four parts, the book discusses the requisite AEC (Architecture, Engineering and Construction) knowledge needed when building a high-performance home. It also communicates this information across four case studies, which provide the reader with a thorough overview of all aspects to be considered in the design and construction of sustainable homes. With contributions from experts in the field, the book provides a well-rounded and multi-faceted approach. This book is essential reading for students and professionals in design, architecture, engineering (civil, mechanical and electrical), construction and energy management.

Educational Practices in China, Korea, and the United States Chuang Wang 2020-03-01 This book is written by a diverse cohort of both of American educators, including professors, teachers, school counselors, and school administrators from pre-K to college levels. Most of the contributors come from disciplinary areas of English as a second language and school administration. With the pressure of Common Core State Standards Initiative, American educators are now shifting their focus to standards-based instruction. Meanwhile, Chinese educators are moving away from national standards and developing state level curriculum and instruction to meet specific needs of the students in local provinces. There is also a debate about whether or not to use the National College Entrance Examination as the only test for college admission. Some provinces (e.g., Zhejiang and Hubei) are administering their own college entrance examinations. The book outlines the sociocultural roots of education in the three countries, linking the tradition and philosophical orientations to each country's own history of education. Furthermore, the book

compares and contrasts the curriculum, especially the teaching of English as a second/foreign language, in three countries. This book examines the stress of students, physical education, various pedagogical styles in foreign language education as well as instructional texts and cross-cultural dialogue between teachers. Additionally, the book explores factors that influence parent's involvement and women's educational and career aspirations. Lastly, the book presents modern technologies such as smart learning technologies and online learning platforms not only to facilitate future educational systems but also to promote international exchanges. The chapters of the book are thematically diverse, but they help to provide inspirations for educators both in American and Asian countries. The findings offer alternative practical lenses for educational community to seek for some "middle ground" between Chinese, South Korea and American education. The intended audience for this book is graduate students, teachers, administrators, and professionals in education.

Smart Health Andreas Holzinger 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.

ICICKM2011-Proceedings of the 8th International Conference on Intellectual Capital, Knowledge Management & Organisational Learning Vincent Ribiere 2011

ECKM 2020 21st European Conference on Knowledge Management Professor Alexeis Garcia-Perez 2020-12-02

Building the e-World Ecosystem Tomas Skersys 2011-12-03 This book constitutes the thoroughly refereed post-conference proceedings of the 11th IFIP WG 6.11 Conference on e-Business, e-Services and e-Society, I3E 2011, held in Kaunas, Lithuania, in October 2011. The 25 revised papers presented were carefully reviewed and selected from numerous submissions. They are organized in the following topical sections: e-government and e-governance, e-services, digital goods and products, e-business process modeling and re-engineering, innovative e-business models and implementation, e-health and e-education, and innovative e-business models.

Encyclopedia of Information Science and Technology, Third Edition Khosrow-Pour, Mehdi 2014-07-31 "This 10-volume compilation of authoritative, research-based articles contributed by thousands of researchers and experts from all over the world emphasized modern issues and the presentation of potential opportunities, prospective solutions, and future directions in the field of information science and technology"--Provided by publisher.

Eco-Homes Doctor Jenny Pickerill 2016-01-15 It is widely understood that good, affordable eco-housing needs to be at the heart of any attempt to mitigate or adapt to climate change. This is the first book to comprehensively explore eco-housing from a geographical, social and political perspective. It starts from the premise that we already know how to build good eco-houses and we already have the technology to retrofit existing housing. Despite this, relatively few eco-houses are being built. Featuring over thirty case studies of eco-housing in Britain, Spain, Thailand, Argentina and the United States, Eco-Homes examines the ways in which radical changes to our houses - such as making them more temporary, using natural materials, or relying on manual heating and ventilation systems - require changes in how we live. As such, it argues, it is not lack of technology or political will that is holding us back from responding to climate change, but deep-rooted cultural and social understandings of our way of life and what we expect our houses to do for us.

Computer Applications for Communication, Networking, and Digital Contents Tai-hoon Kim 2012-11-28 This volume constitutes the refereed proceedings of the International Conferences, FGCN and DCA 2012, held as part of the Future Generation Information Technology Conference, FGIT 2012, Kangwondo, Korea, in December 2012. The papers presented were carefully reviewed and selected from numerous submissions and focus on the various aspects of future generation communication and networking, and digital contents and applications.

ECIC2011-Proceedings of the 3rd European Conference on Intellectual Capital Geoff Turner 2011-04-18 These proceedings represent the work of presenters at the 3rd European Conference on Intellectual Capital (ECIC 2011). The Conference is hosted this year by the University of Nicosia in Cyprus. The Conference Chair is Geoff Turner from the University of Nicosia and the Programme Chair is Clemente Minonne from the School of Management and Law, Zurich University of Applied Sciences, Winterthur, Switzerland. The opening keynote address is given by John Girard from Minot State University in the USA. John will address the question Social Knowledge: Are we ready for the future? The second day of the conference will be opened by Ludo Pyis from AREOPA in Belgium who will consider Intellectual Capital Accounting: how to measure the unmeasurable. We also look forward to a Knowledge Cafe on the topic of What intellectual capital ideas and developments do you expect to live and see? facilitated by Helen Paige from The Paige Group, South Australia.

Sensor Technology for Smart Homes Juan Ye 2021-04-21 This Special Issue presents the recent advances in sensor technologies for smart homes, including fiber Bragg grating (FBG) sensors for detecting the presence and number of occupants, the Internet of things for monitoring CO2 concentration, and designing a novel eye-tracking system for monitoring and controlling a smart home, and infrared thermal sensors for fall detection. Such new explorations are pushing the boundary of sensing technologies and, thus, will have more profound implications for the future smart home. Advanced machine learning and data mining algorithms have been proposed to address sensor failure, appliance identification, and human activity recognition in a home environment. These results will enable a promising, sustainable deployment of sensing technologies. A novel multi-agent gamification system is proposed for managing tasks between household members and between families, which demonstrate another dimension of future smart home application. This Special Issue concludes with a review on sensors for human activity recognition. This work paves the roadmap for deploying smart home systems in different socioeconomic contexts. The whole Special Issue has significantly helped to shape our understanding of the strength, implications, and barriers of deploying long-term, sustainable, sensor technologies for smart homes.