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Interoperability, Safety and Security in IoT - Giancarlo Fortino 2018-07-20
This book constitutes the refereed post-conference proceedings of the Third International Conference on Interoperability, InterIoT 2017, which was collocated with SaSeIoT 2017, and took place in Valencia, Spain, in November 2017. The 14 revised full papers were carefully reviewed and selected from 22 submissions and cover all aspects of the latest research findings in the area of Internet of Things (IoT).

EAdoption and the Knowledge Economy - Paul Cunningham 2004
With 230 articles by a mainly European group of contributors from the fields of broadband and mobility, e-business, e-government, knowledge management, networked organizations, training, and education, among other fields, this 2v reference contains a wealth of material on the diverse issues involved in adopting information technology into business. While much progress has been made in building the Knowledge Economy, many challenges remain. This requires ever-greater transparency of public and private initiatives, whether commercial, legislative, political, social or technical in nature. It is important that human, cultural and technological issues related to eAdoption and the Digital Divide are constantly in the public eye. This book brings together a comprehensive collection of over 230 contributions on commercial, government or societal exploitation of the Internet and ICT, representing cutting edge research from over 30 countries. The issues, applications and case studies presented facilitate knowledge sharing, which is key to addressing global eAdoption issues and the Digital Divide. It can be used to benchmark regional and national developments, avoid previous mistakes and identify potential partners and exploitation opportunities

Information Technology Outlook 2004 - OECD 2004-12-03
This volume describes recent market dynamics and gives a detailed overview of the globalisation of the information and communication technology (ICT) sector and the

rise of ICT-enabled international sourcing.

Nursing Informatics and the Foundation of Knowledge - Dee McGonigle 2015
Explains how nursing informatics relates to knowledge acquisition, knowledge processing, knowledge generation, and knowledge dissemination and feedback, all of which build the science of nursing.

Exploiting the Knowledge Economy - Paul Cunningham 2006
"Adaptation of applied Information and Communication Technologies (ICT) research results is one of the greatest challenges faced today in building the global Knowledge Economy. While research challenges can be quite similar across the world thus facilitating cross-border cooperation between researchers, government and industry, how actual research results can be exploited or implemented can vary considerably depending on the social, cultural and infrastructural context of the target country, province or region. This offers opportunities as well as challenges in terms of how applied ICT can be used to both support economic development and inform future research challenges. When cross-border collaboration is effective, there can be a valuable exchange of knowledge that can not only lead to successful adaptation of research results or lessons learnt from successful implementations in other countries, but can also provide insight into different problem solving techniques and new ways of thinking that can enrich the ICT research agenda. It is only through such mutually beneficial shared insight that the Digital Divide can be bridged. This set of two books brings together a comprehensive collection of over 220 contributions on commercial, government or societal exploitation of applied ICT, representing cutting edge research, good practice and practical eAdoption from Africa, the Americas, Asia & Europe."

Technological Developments in Industry 4.0 for Business Applications - Ferreira, Luis 2018-09-14
One of the most important issues businesses face is how to adapt to changing operational and administrative processes. Globalization and high competition highlight the importance of technological innovation and its contribution to the organizational performance of businesses.

Technological Developments in Industry 4.0 for Business Applications is a collection of innovative research on the methods and applications of developing new services related to industrial processes in order to improve organizational well-being. It also looks at the technological, organizational, and social aspects of Industry 4.0. Highlighting a range of topics including enterprise integration, logistic models, and supply chain, this book is ideally designed for computer engineers, managers, business and IT professionals, business researchers, and post-graduate students seeking current research on the evolution and development of business applications in the modern industry era.

Computing Science, Communication and Security - Nirbhay Chaubey 2020-07-18
This book constitutes revised selected papers of the First International Conference on Computing Science, Communication and Security, COMS2 2020, held in March 2020. Due to the COVID-19 pandemic the conference was held virtually. The 26 full papers and 1 short paper were thoroughly reveiwed and selected from 79 submissions. Papers are organised according to the topical sections on artificial intelligence and machine learning; network, communication and security; computing science.

Internet of Things in Business Transformation - Parul Gandhi 2021-02-03
The objective of this book is to teach what IoT is, how it works, and how it can be successfully utilized in business. This book helps to develop and implement a powerful IoT strategy for business transformation as well as project execution. Digital change, business creation/change and upgrades in the ways and manners in which we work, live, and engage with our clients and customers, are all enveloped by the Internet of Things which is now named "Industry 5.0" or "Industrial Internet of Things." The sheer number of IoT(a billion+), demonstrates the advent of an advanced business society led by sustainable robotics and business intelligence. This book will be an indispensable asset in helping businesses to understand the new technology and thrive.

Interoperability and Open-Source Solutions for the Internet of Things - Ivana Podnar Zarko 2015-03-25
This book constitutes the thoroughly refereed

post-conference proceedings of the International Workshop on Interoperability and Open-Source Solutions for the Internet of Things, FP7 OpenIot Project, held in Conjunction with SoftCOM 2014, in Split, Croatia, in September 2014. The 11 revised full papers presented together with the extended abstracts of 2 keynote talks were carefully reviewed and selected from numerous submissions during two rounds of reviewing and improvement. The papers are organized in topical sections on OpenIoT platform, open platforms and standards, and IoT Applications.

Open Source Software in Life Science Research - Lee Harland 2012-10-31
The free/open source approach has grown from a minor activity to become a significant producer of robust, task-orientated software for a wide variety of situations and applications. To life science informatics groups, these systems present an appealing proposition - high quality software at a very attractive price. Open source software in life science research considers how industry and applied research groups have embraced these resources, discussing practical implementations that address real-world business problems. The book is divided into four parts. Part one looks at laboratory data management and chemical informatics, covering software such as Bioclipse, OpenTox, ImageJ and KNIME. In part two, the focus turns to genomics and bioinformatics tools, with chapters examining GenomicsTools and EBI Atlas software, as well as the practicalities of setting up an 'omics' platform and managing large volumes of data. Chapters in part three examine information and knowledge management, covering a range of topics including software for web-based collaboration, open source search and visualisation technologies for scientific business applications, and specific software such as DesignTracker and Utopia Documents. Part four looks at semantic technologies such as Semantic MediaWiki, TripleMap and Chem2Bio2RDF, before part five examines clinical analytics, and validation and regulatory compliance of free/open source software. Finally, the book concludes by looking at future perspectives and the economics and free/open source software in industry. Discusses a broad range of applications from a variety of sectors Provides a unique perspective on work normally performed behind closed doors Highlights the criteria used to compare and assess different approaches to solving problems

Advancing IoT Platforms Interoperability - Ovidiu Vermesan 2022-09-01
The IoT European Platforms Initiative (IoT-EPI) projects are addressing the topic of Internet of Things and Platforms for Connected Smart Objects and aim to deliver an IoT extended into a web of platforms for connected devices and objects that supports smart environments, businesses, services and persons with dynamic and adaptive configuration capabilities. The specific areas of focus of the research activities are architectures and semantic interoperability, which reliably cover multiple use cases. The goal is to deliver dynamically-configured infrastructure and integration platforms for connected smart objects covering multiple technologies and multiple intelligent artefacts. The IoT-EPI ecosystem has been created with the objective of increasing the impact of the IoT-related European research and innovation, including seven European promising projects on IoT platforms: AGILE, BIG IoT, INTER-IoT, VICINITY, SymbIoTe, bIoTope, and TagItSmart.This white paper provides an insight regarding interoperability in the IoT platforms and ecosystems created and used by IoT-EPI. The scope of this document covers the interoperability aspects, challenges and approaches that cope with interoperability in the current existing IoT platforms and presents some insights regarding the future of interoperability in this context. It presents possible solutions, and a possible IoT interoperability platform architecture.

Software Applications: Concepts, Methodologies, Tools, and Applications - Tiako, Pierre F. 2009-03-31
Includes articles in topic areas such as autonomic computing, operating system architectures, and open source software technologies and applications.

Open Source Systems: Grounding Research - Scott Hissam 2011-10-12
This book constitutes the refereed proceedings of the 7th International IFIP WG 2.13 Conference on Open Source Systems, OSS 2010, held in Salvador, Brazil, in October 2011. The 20 revised full papers presented together with 4

industrial full papers and 8 lightning talks were carefully reviewed and selected from 56 submissions. The papers are organized in the following topical sections: OSS quality and reliability, OSS products, review of technologies of and for OSS, knowledge and research building in OSS, OSS reuse, integration, and compliance, OSS value and economics, OSS adoption in industry, and mining OSS repositories.

Enterprise Interoperability VIII - Keith Popplewell 2019-04-25
This book gathers the proceedings of the I-ESA'18 Conference, which was organised by the Fraunhofer IPK, on behalf of the European Virtual Laboratory for Enterprise Interoperability (INTEROP-VLab) and the DFI, and was held in Berlin, Germany in March 2018. It presents contributions ranging from academic research and case studies, to industrial and administrative experiences with interoperability that show how, in a globalised market scenario – where the ability to cooperate with other organisations efficiently is essential in order to remain economically, socially and environmentally cost-effective – the most innovative digitised and networked enterprises ensure that their systems and applications can interoperate across heterogeneous collaborative networks of independent organisations. Furthermore, the content addresses smart services, and the business impact of enterprise interoperability on organisations. Many of the papers in this ninth volume of the I-ESA Conference proceedings include examples and illustrations to help deepen readers' understanding and generate new ideas. Offering a detailed guide to the state of the art in systems interoperability, the book will be of great value to all engineers and computer scientists working in manufacturing and other process industries, and to software engineers and electronic and manufacturing engineers working in academic settings.

Interoperability, Safety and Security in IoT - Nathalie Mitton 2017-02-13
This book constitutes the refereed post-conference proceedings of the International Conference on Safety and Security in Internet of Things , SaSeIoT 2016, which was collocated with InterIoT and took place in Paris, France, in October 2016. The 14 revised full papers were

carefully reviewed and selected from 22 submissions and cover all aspects of the latest research findings in the area of Internet of Things (IoT).

Electronic Government and the Information Systems Perspective - Kim Normann Andersen 2010-08-18
In front of you are the proceedings of the First International Conference on Electronic Government and Information Systems Perspective, EGOVIS. This conference builts on the tradition of its predecessors, the Electronic Government Conferences (EGOV) under the DEXA umbrella, which have been ongoing for nine years, but it also - cluded some innovations. In view of the large number of electronic government c- ferences, we found it important to focus the scope of the conference a little and to increase the quality requirements. Hence this year's conference featured a tougher review process and a smaller set of accepted papers. As a result, these proceedings contain the very best papers of 2010 covering various important aspects of electronic government and information systems used in the public sector. With an acceptance rate of less than 20% EGOVIS belongs to the top ten conferences in the world. The Program Committee accepted 13 full papers and 11 short papers, covering the most recent research trends in electronic government implementations, such as ICT for eGovernment services and monitoring, knowledge and content management systems for temporal and geo-spatial applications, interoperability for electronic government integrated architectures, decision and support tools for eDemocracy and direct parti- pation of citizens in the policy-making strategies, and Web 2. 0 and 3. 0 approaches for collaborative and transparent public sector services.

Opening Standards - Laura Denardis 2011-09-02
The economic and political stakes in the current heated debates over "openness" and open standards in the Internet's architecture. Openness is not a given on the Internet. Technical standards—the underlying architecture that enables interoperability among hardware and software from different manufacturers—increasingly control individual freedom and the pace of innovation in

technology markets. Heated battles rage over the very definition of "openness" and what constitutes an open standard in information and communication technologies. In Opening Standards, experts from industry, academia, and public policy explore just what is at stake in these controversies, considering both economic and political implications of open standards. The book examines the effect of open standards on innovation, on the relationship between interoperability and public policy (and if government has a responsibility to promote open standards), and on intellectual property rights in standardization—an issue at the heart of current global controversies. Finally, Opening Standards recommends a framework for defining openness in twenty-first-century information infrastructures. Contributors discuss such topics as how to reflect the public interest in the private standards-setting process; why open standards have a beneficial effect on competition and Internet freedom; the effects of intellectual property rights on standards openness; and how to define standard, open standard, and software interoperability.

The Cambridge Handbook of Technical Standardization Law - Jorge L. Contreras 2017-12-14
Technical standards are ubiquitous in the modern networked economy. They allow products made and sold by different vendors to interoperate with little to no consumer effort and enable new market entrants to innovate on top of established technology platforms. This groundbreaking volume, edited by Jorge L. Contreras, assesses and analyzes the legal aspects of technical standards and standardization. Bringing together more than thirty leading international scholars, advocates, and policymakers, it focuses on two of the most contentious and critical areas pertaining to standards today in key jurisdictions around the world: antitrust/competition law and patent law. (A subsequent volume will focus on international trade, copyright, and administrative law.) This comprehensive, detailed examination sheds new light on the standards that shape the global technology marketplace and will serve as an indispensable tool for scholars, practitioners, judges, and policymakers everywhere.
Informatics for Health Professionals -

Kathleen Mastrian 2019-12-19
Informatics for Health Professionals is an excellent resource to provide healthcare students and professionals with the foundational knowledge to integrate informatics principles into practice.

Digital excellence in agriculture in Europe and Central Asia - Food and Agriculture Organization of the United Nations 2021-10-26
The present report is the outcome of the joint call on good practices on Digital Excellence in Agriculture, organized by the International Telecommunication Union (ITU) Office for Europe and Office for CIS and the Food and Agriculture Organization (FAO) of the United Nations Office for Europe and Central Asia. The document presents a summary version of the 171 eligible submissions of good practices and innovative solutions advancing the digital transformation of agriculture in Europe and Central Asia. This call complements the joint FAO-ITU review on the Status of Digital Agriculture in 18 countries of Europe and Central Asia (ITU-FAO, 2020)1 and provides evidence on how Information and Communication Technologies (ICTs) play an emerging role in the agriculture landscapes of the regions, acting as an engine for agricultural development. However, the adoption of digital technologies in agriculture differs from country to country, and from region to region. The review in the 18 countries highlighted that smallholder farmers have yet to experience the widespread benefits of this digital transformation, and they are lagging behind when it comes to the adoption of digital agriculture solutions and innovations due to lack of trust in the potential of ICTs, limited digital skills, connectivity issues and restricted availability of ICT-based solutions to utilize and scale up. Realizing the full potential of digital agriculture transformation requires identifying, sharing and implementing best practices and proven solutions across countries, involving all actors in participatory processes.
Informatics for Health Professionals - Mastrian 2016-04-11
Provides healthcare students and professionals with the foundational knowledge to integrate informatics principles into clinical practice. Key content focuses on current informatics research

and practice including but not limited to: technology trends, information security advances, health information exchanges, care coordination, transition technologies, ethical and legislative aspects, social media use, mobile health, bioinformatics, knowledge management, data mining, and more. Helpful learning tools include case studies, provoking questions to prompt discussion and application of the material learned, research briefs to encourage the reader to access current research, and call-outs which focus on cutting-edge innovations, meaningful use, and patient safety.

Interoperability in Digital Public Services and Administration: Bridging E-Government and E-Business - Charalabidis, Yannis 2010-07-31 During the last decade, interoperability has emerged as a vivid research area in electronic business and electronic governance, promising a significant increase in productivity and efficiency of information systems, enterprises and administrations. Interoperability in Digital Public Services and Administration: Bridging E-Government and E-Business provides the latest research findings such as theoretical foundations, principles, methodologies, architectures, technical frameworks, international policy, standardization and case studies for the achievement of interoperability within the provision of digital services, from administration and businesses toward the user citizens and enterprises.

Open Source Solutions for Knowledge Management and Technological Ecosystems - Garcia-Peñalvo, Francisco J. 2016-10-11 Over the past decade, diverse organizations have been turning to open source software for their technological needs, in both internal processes management and public interaction. Turning the data generated by organizations ranging from universities to large corporations into usable information has plagued users for years, making open source solutions one of the primary goals of these institutions. Open Source Solutions for Knowledge Management and Technological Ecosystems addresses the issues surrounding the search for each organization's unique data management needs, defining the tools necessary to fulfill them within their technological ecosystem, along with the selection, interoperability, and integration of

these tools. This book is ideal for managers, business professionals, software engineers, information technology professionals, and students of business and IT.

Open-source Solutions in Education - J. Burton Browning 2010

Economics and Security Implications of Cloud Computing - Sudipta Sahana 2019-08-26 To readers who could be merely surfing the pages to catch a quick glimpse as to what cloud computing is all about,to the more serious and corporate users,the book is expected to provide at least a humble modicum of nourishment to set them off on a journey that would no doubt help them achieve success to the cloud and beyond.The book focus on the technical aspects of cloud insofar as speeding up the process of grasping the concerned facts and the underlying economic benefits of cloud computing.

Interoperability of Heterogeneous IoT Platforms - Carlos E. Palau 2021-12-13 This book discusses the design and implementation of, as well as experimentation on, an open cross-layer framework and associated methodology to provide voluntary interoperability among heterogeneous Internet of Things (IoT) platforms. It allows readers to effectively and efficiently develop smart IoT applications for various heterogeneous IoT platforms, spanning single and/or multiple application domains. To do so, it provides an interoperable framework architecture for the seamless integration of different IoT architectures present in different application domains. In this regard, interoperability is pursued at various levels: device, network, middleware, services and data.

Interoperability and Open-Source Solutions for the Internet of Things - Ivana Podnar Žarko 2017-04-05 This book constitutes the thoroughly refereed post-conference proceedings of the second International Workshop on Interoperability and Open-Source Solutions for the Internet of Things, InterOSS-IoT 2016, held in Stuttgart, Germany, November 7, 2016. The 11 revised full papers presented were carefully reviewed and selected from 17 submissions during two rounds of reviewing. They are organized in topical sections on semantic interoperability,

interoperabile architectures and platforms, business models and security, platform performance and applications.

Space Supporting Africa - Annette Froehlich 2020
In Volume 1 the background and context of Africas political and socio-economic landscape is presented and unpacked through a primary needs approach which focuses on climate, biodiversity, health, water, education, and space-related capacity building. African theoretical contributions from the International Relations field are discussed, and Africas new Space Policy and Strategy, along with debates around the establishment of an African Space Agency, are explored. The African International Space Ecosystem is then analyzed, including its dimensions of intra-African space relations and initiatives, African participation in COPUOS, and international space activities, agreements, and initiatives in Africa. The final part is dedicated to the national space infrastructure and activities of African states. Volume 2 addresses the need to support decision-makers across Africa by promoting awareness of the importance of space technologies and data to African development through the presentation of existing examples where space supports education and healthcare, and by making recommendations for further roll-out of these efforts. This is necessary because of the enduring misconception that space-related research and expenditure competes with other, more pressing, needs on the continent, when in truth space can play a major role in meeting these needs. Accordingly, the book unpacks the United Nations Sustainable Development Goals (SDGs) 2030 and the critical needs they address in the African context. Secondly, it provides an analysis of the African higher education landscape and considers the network of higher education-related SDGs, their targets, and their indicators. Africas own development plan, Agenda 2063, is also explored. The African higher education landscape is then assessed by way of three models the Space-Education Equation (SEE), the Benefits to Education by Space Transection (BEST), and the Enhanced Education for Sustainable Development Access and Success (EESDAS) model. The critical role of educational technologies and e-learning in bridging the educational access and success gap is appraised, as is the role of the space sector, and its technologies, applications, and data in African higher education. Finally, it explores e-health and provides an analysis of pertinent technologies required by e-health, past and present, and the opportunities and challenges it presents. Space technology can play a critical role in eliminating the barriers that are currently preventing e-health from playing a more significant role in a developing region such as sub-Saharan Africa. In Volume 3, Africa faces numerous challenges relating to good governance due to its vast and diverse landscape, as well as its history. This book explores the role of space-based applications in supporting African good governance by strengthening civil society, bolstering democratic processes and advancing socio-economic development. The increased use of such applications can accelerate Africa's progress towards the United Nations Agenda 2030 Sustainable Development Goals, as well as the African Union's Agenda 2063 aspirations This book examines key challenges facing governance within African to provide an accurate account of the current African context. It discusses specific examples of e-governance and digital solutions that leverage space-based technologies and have been successfully implemented in both the developed and developing world. In the context of the numerous satellite constellations being deployed to provide affordable Internet connectivity globally, it examines the major actors in this sector and presents additional governance solutions based on remote sensing and Earth observation data. Given its scope, the book will be of interest to professionals and students in the fields of development, governance and space studies.

Open Source Systems: Towards Robust Practices - Federico Balaguer 2017-05-10
This book is open access under a CC BY license. This book constitutes the refereed proceedings of the 13th IFIP WG 2.13 International Conference on Open Source Systems, OSS 2017, held in Buenos Aires, Argentina, in May 2017. The 16 revised full papers and 3 short papers presented were carefully reviewed and selected from 32 submissions. The papers cover a wide range of topics related to free, libre, and open

source software (FLOSS), including: licensing, strategies, and practices; case studies; projects, communication, and participation; tools; and project management, development and evaluation.

Interoperability and Open-Source Solutions for the Internet of Things - Ivana Podnar Žarko 2017-04-03
This book constitutes the thoroughly refereed post-conference proceedings of the second International Workshop on Interoperability and Open-Source Solutions for the Internet of Things, InterOSS-IoT 2016, held in Stuttgart, Germany, November 7, 2016. The 11 revised full papers presented were carefully reviewed and selected from 17 submissions during two rounds of reviewing. They are organized in topical sections on semantic interoperability, interoperabile architectures and platforms, business models and security, platform performance and applications.

Health sector contributions towards improving the civil registration of births and deaths in low-income countries - 2021-06-22

Connected Environments for the Internet of Things - Zaigham Mahmood 2018-01-05
This comprehensive text/reference presents a broad-ranging overview of device connectivity in distributed computing environments, supporting the vision of an Internet of Things (IoT). Expert perspectives are provided by an international selection of researchers from both industry and academia, covering issues of communication, security, privacy, interoperability, networking, access control, and authentication. In addition to discussing state-of-the-art research and practice, the book includes corporate analyses offering a balanced view of benefits and limitations, and numerous case studies illustrating the challenges and practical solutions. Topics and features: discusses issues of security and privacy in connected environments, with a specific focus on the impact of the IoT paradigm on enterprise information systems; examines the challenges of managing big data in IoT environments, and proposes cloud computing-based solutions to the limitations inherent in the IoT paradigm; suggests approaches to overcome service-level interoperability problems in the IoT

environment; introduces a mobile IoT simulator designed to evaluate the behavior of IoT systems, in addition to a novel approach to manage hyper-connectivity in the IoT; describes the use of the Essence framework to model software development methods, and highlights the benefits of integrating data from smart buildings and IoT devices; presents an asymmetric schema matching mechanism for IoT interoperability, and explores the topic of automatic provenance capture at the middleware level; reviews emerging network topologies and communication technologies, and advises on the adoption of a data distribution service as a middleware platform for IoT systems. This practically-oriented volume serves as a complete reference for students, researchers and practitioners of distributed computing, providing insights into the latest approaches, technologies, and frameworks relevant to the IoT environment.

Research Anthology on Usage and Development of Open Source Software - Management Association, Information Resources 2021-06-25
The quick growth of computer technology and development of software caused it to be in a constant state of change and advancement. This advancement in software development meant that there would be many types of software developed in order to excel in usability and efficiency. Among these different types of software was open source software, one that grants permission for users to use, study, change, and distribute it freely. Due to its availability, open source software has quickly become a valuable asset to the world of computer technology and across various disciplines including education, business, and library science. The Research Anthology on Usage and Development of Open Source Software presents comprehensive research on the design and development of open source software as well as the ways in which it is used. The text discusses in depth the way in which this computer software has been made into a collaborative effort for the advancement of software technology. Discussing topics such as ISO standards, big data, fault prediction, open collaboration, and software development, this anthology is essential for computer engineers, software developers, IT specialists and

consultants, instructors, librarians, managers, executives, professionals, academicians, researchers, and students.

11th Mediterranean Conference on Medical and Biological Engineering and Computing 2007 - Tomaz Jarm 2007-11-12
Biomedical engineering brings together bright minds from diverse disciplines, ranging from engineering, physics, and computer science to biology and medicine. This book contains the proceedings of the 11th Mediterranean Conference on Medical and Biological Engineering and Computing, MEDICON 2007, held in Ljubljana, Slovenia, June 2007. It features relevant, up-to-date research in the area.

Encyclopedia of Geography - Barney Warf 2010-09-21
Simply stated, geography studies the locations of things and the explanations that underlie spatial distributions. Profound forces at work throughout the world have made geographical knowledge increasingly important for understanding numerous human dilemmas and our capacities to address them. With more than 1,200 entries, the Encyclopedia of Geography reflects how the growth of geography has propelled a demand for intermediaries between the abstract language of academia and the ordinary language of everyday life. The six volumes of this encyclopedia encapsulate a diverse array of topics to offer a comprehensive and useful summary of the state of the discipline in the early 21st century. Key Features Gives a concise historical sketch of geography's long, rich, and fascinating history, including human geography, physical geography, and GIS Provides succinct summaries of trends such as globalization, environmental destruction, new geospatial technologies, and cyberspace Decomposes geography into the six broad subject areas: physical geography; human geography; nature and society; methods, models, and GIS; history of geography; and geographer biographies, geographic organizations, and important social movements Provides hundreds of color illustrations and images that lend depth and realism to the text Includes a special map section Key Themes Physical Geography Human Geography Nature and Society Methods, Models, and GIS People, Organizations, and Movements History of Geography This encyclopedia strategically reflects the enormous diversity of the discipline, the multiple meanings of space itself, and the diverse views of geographers. It brings together the diversity of geographical knowledge, making it an invaluable resource for any academic library.

IoT as a Service - Yi-Bing Lin 2018-10-17
This book constitutes the thoroughly refereed proceedings of the 3rd International Conference on IoT as a service, IoTaaS 2017, held in Taichung, Taiwan, in September 2017. The 46 full papers were carefully selected from 65 submissions. The papers deal with the "Everything as a Service" deployment paradigm which enables the easy adoption of IoT based services and applications by end-users, and forces providers of smart objects and middleware platforms to architect their solutions accordingly. The three special sessions organized were Wearable Technology and Applications (WTAA), Building Smart Machine Applications (BSMA), and Security and Privacy in Internet of Things, Services and People (SP-IoTSP). The WTAA special session aimed to address the challenges of maintaining high efficiency of WTAA in terms of high recognition rate, energy consumption, computational costs and so forth. The BSMA special session aimed to explore how to construct smart machines architecture for the industry under the background of IoT and big data. The SP-IoTSP special session aimed to investigate recent research and future directions for IoTSP security and privacy.

IoT and Cloud Computing for Societal Good - Jitendra Kumar Verma 2021-12-26
This book gathers the state-of-the-art for industrial application of scientific and practical research in the Cloud and IoT paradigms to benefit society. The book first aims to discuss and outline various aspects of tackling climate change. The authors then discuss how Cloud and IoT can help for digital health and learning from industrial aspects. The next part of book discusses technical improvements in the fields of security and privacy. The book also covers Smart Homes and IoT in agriculture. The book is targeted towards advancing undergraduate, graduate, and post graduate students, researchers, academicians, policymakers,

various government officials, NGOs, and industry research professionals who are currently working in the field of science and technology either directly or indirectly to benefit common masses.

Book Only - Dee McGonigle 2011-08
This book is the ideal student guide to the history of healthcare informatics, current issues, basic informatics concepts, and health information management applications.

Sixth International Conference on Intelligent Computing and Applications -

Subhransu Sekhar Dash 2021-07-27 This book presents the peer-reviewed proceedings of the Sixth International Conference on Intelligent Computing and Applications (ICICA 2020), held at Government College of Engineering, Keonjhar, Odisha, India, during December 22–24, 2020. The book includes the latest research on advanced computational methodologies such as neural networks, fuzzy systems, evolutionary algorithms, hybrid intelligent systems, uncertain reasoning techniques, and other machine learning methods and their applications to decision-making and problem-solving in mobile and wireless communication networks.

Enterprise Interoperability: Smart Services and Business Impact of Enterprise Interoperability - Martin Zelm 2018-10-25
The ability of future industry to create interactive, flexible and always-on connections between design, manufacturing and supply is an ongoing challenge, affecting competitiveness, efficiency and resourcing. The goal of enterprise interoperability (EI) research is therefore to address the effectiveness of solutions that will successfully prepare organizations for the advent and uptake of new technologies. This volume outlines results and practical concepts from recent and ongoing European research studies in EI, and examines the results of research and discussions cultivated at the I-ESA 2018 conference, "Smart services and business impact of enterprise interoperability". The conference, designed to encourage collaboration between academic inquiry and real-world industry applications, addressed a number of advanced multidisciplinary topics including Industry 4.0, Big Data, the Internet of Things, Cloud computing, ontology, artificial intelligence, virtual reality and enterprise modelling for future "smart" manufacturing. Readers will find this book to be a source of invaluable knowledge for enterprise architects in a range of industries and organizations.