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Networking Communication and Data Knowledge Engineering Gregorio Martinez Perez 2017-11-02 Data science, data engineering and knowledge engineering requires networking and communication as a backbone and have wide scope of implementation in engineering sciences. Keeping this ideology in preference, this book includes the insights that reflect the advances in these fields from upcoming researchers and leading academicians across the globe. It contains high-quality peer-reviewed papers of 'International Conference on Recent Advancement in Computer, Communication and Computational Sciences (ICRACCCS 2016)', held at Janardan Rai Nagar Rajasthan Vidyapeeth University, Udaipur, India, during 25–26 November 2016. The volume covers variety of topics such as Advanced Communication Networks, Artificial

Intelligence and Evolutionary Algorithms, Advanced Software Engineering and Cloud Computing, Image Processing and Computer Vision, and Security. The book will help the perspective readers from computer industry and academia to derive the advances of next generation communication and computational technology and shape them into real life applications.

Understanding Cybersecurity Law and Digital Privacy Melissa Lukings 2021-12-01 Cybersecurity, data privacy law, and the related legal implications overlap into a relevant and developing area in the legal field. However, many legal practitioners lack the foundational understanding of computer processes which are fundamental for applying existing and developing legal structures to the issue of cybersecurity and data privacy. At the same time, those who work and research in cybersecurity are often unprepared and unaware of the nuances of legal application. This book translates the fundamental building blocks of data privacy and (cyber)security law into basic knowledge that is equally accessible and educational for those working and researching in either field, those who are involved with businesses and organizations, and the general public.

Fuzzy Systems, Knowledge Discovery and Natural Computation Symposium Liangshan Shao 2013-11-20 The Fuzzy Systems, Knowledge Discovery, and Natural Computation Symposium (FSKDNC 2013) was successfully held from 24 to 25 July 2013, in Shenyang, China. The Symposium was a platform for authors to present their recent development on fuzzy systems, knowledge discovery, and natural computation (i.e., intelligent techniques inspired from nature, such as neural networks, genetic algorithms, and particle swarm optimization). The Symposium attracted numerous submissions from around the globe. Each submitted paper was rigorously reviewed by the program committee and additional reviewers based on originality, significance and quality of the research, clarity of the presentation, and relevance to the Symposium theme. 60 papers are included in the Symposium proceedings after the review process. The great efforts of the authors, the Organizing Committee members, the Program Committee members, and the additional reviewers are acknowledged here. The Symposium would not have been possible without the support from Liaoning Technical University. The professional and courteous staff from DEStech Publications, Inc also deserves special credits.

Handbook of Research on Cyber Crime and Information Privacy Cruz-Cunha, Maria Manuela 2020-08-21 In recent years, industries have transitioned into the digital realm, as companies and organizations are adopting certain forms of technology to assist in information storage and efficient methods of production. This dependence has significantly increased the risk of cyber crime and breaches in data security. Fortunately, research in the area of cyber security and information protection is flourishing; however, it is the responsibility of industry professionals to keep pace with the current trends within this field. The Handbook of Research on Cyber Crime and Information Privacy is a collection of innovative research on the modern methods of crime and misconduct within cyber space. It presents novel solutions to securing and preserving digital information through practical examples and case studies. While highlighting topics including virus detection, surveillance technology, and social networks, this book is ideally designed for cybersecurity professionals, researchers, developers, practitioners, programmers, computer scientists, academicians, security analysts, educators, and students seeking up-to-date research on advanced approaches and developments in cyber security and information protection.

Privacy in Location-Based Applications Claudio Bettini 2009-07-30 Location-based applications refer to those that use location data in a prominent manner. Location data can be very effective for service provisioning, enabling the birth of a new generation of information services. Although data security and privacy issues have been extensively investigated in several domains, current techniques are not readily applicable to location-based applications. Conciliating the effectiveness of these applications with privacy concerns constitutes a unique challenge, mostly due to the semantic richness of location and time information. Research in this field involves aspects of spatio-temporal reasoning, query processing, system security, statistical inference, and more importantly, anonymization techniques. Several research groups have been working in recent years to identify privacy attacks and defense techniques in this domain. This state-of-the-art survey provides a solid ground for researchers approaching this topic to understand current achievements through a common categorization of privacy threats and defense techniques. This objective is particularly challenging considering the specific (and often implicit) assumptions that characterize the recent literature on privacy in location-based services. The book also illustrates the many facets that make the study of this topic a particularly interesting research subject, including topics that go beyond privacy preserving transformations of service requests, and include access control, privacy preserving publishing of moving object data, privacy in the use of specific positioning technology, and privacy in vehicular network applications.

Information Modelling and Knowledge Bases XXVII T. Welzer 2016-02-04 Information modeling has become an increasingly important topic for researchers, designers and users of information systems. In the course of the last three decades, information modeling and knowledge bases have become essential, not only with regard to information systems and computer science in an academic context, but also with the use of information technology for business purposes. This book presents 29 papers selected and upgraded from those delivered at the 25th International Conference on Information Modelling and Knowledge Bases (EJC 2015), held in Maribor, Slovenia, in June 2015. The aim of the conference is to bring together experts from different areas of computer science and other disciplines, including philosophy and logic, cognitive science, knowledge management, linguistics, and management science, with a view to understanding and solving problems and applying research results to practice. Areas covered by the papers include: conceptual modeling; knowledge and information modeling and discovery; linguistic modeling; cross-cultural communication and social computing; environmental modeling and engineering; and multimedia data modeling and systems. The book will be of interest to all those whose work involves the development or use of information modeling and knowledge bases.

Techniques and Applications for Advanced Information Privacy and Security: Emerging Organizational, Ethical, and Human Issues Nemati, Hamid 2009-03-31 "This book provides a thorough understanding of issues and concerns in information technology security"--Provided by publisher.

Security, Privacy and Trust in Cloud Systems Surya Nepal 2013-09-03 The book compiles technologies for enhancing and provisioning security, privacy and trust in cloud systems based on Quality of Service requirements. It is a timely contribution to a field that is gaining considerable research interest, momentum, and provides a comprehensive coverage of technologies related to cloud security, privacy and trust. In particular, the book includes - Cloud security fundamentals and related technologies to-date, with a comprehensive coverage of evolution, current landscape, and future roadmap. - A smooth organization with introductory, advanced and specialist content, i.e. from basics of security,

privacy and trust in cloud systems, to advanced cartographic techniques, case studies covering both social and technological aspects, and advanced platforms. - Case studies written by professionals and/or industrial researchers. - Inclusion of a section on Cloud security and eGovernance tutorial that can be used for knowledge transfer and teaching purpose. - Identification of open research issues to help practitioners and researchers. The book is a timely topic for readers, including practicing engineers and academics, in the domains related to the engineering, science, and art of building networks and networked applications. Specifically, upon reading this book, audiences will perceive the following benefits: 1. Learn the state-of-the-art in research and development on cloud security, privacy and trust. 2. Obtain a future roadmap by learning open research issues. 3. Gather the background knowledge to tackle key problems, whose solutions will enhance the evolution of next-generation secure cloud systems.

Ubiquitous Knowledge Discovery Michael May 2010-10-07 Knowledge discovery in ubiquitous environments is an emerging area of research at the intersection of the two major challenges of highly distributed and mobile systems and advanced knowledge discovery systems. It aims to provide a unifying framework for systematically investigating the mutual dependencies of otherwise quite unrelated technologies employed in building next-generation intelligent systems: machine learning, data mining, sensor networks, grids, peer-to-peer networks, data stream mining, activity recognition, Web 2.0, privacy, user modelling and others. This state-of-the-art survey is the outcome of a large number of workshops, summer schools, tutorials and dissemination events organized by KDubiq (Knowledge Discovery in Ubiquitous Environments), a networking project funded by the European Commission to bring together researchers and practitioners of this emerging community. It provides in its first part a conceptual foundation for the new field of ubiquitous knowledge discovery - highlighting challenges and problems, and proposing future directions in the area of 'smart', 'adaptive', and 'intelligent' learning. The second part of this volume contains selected approaches to ubiquitous knowledge discovery and treats specific aspects in detail. The contributions have been carefully selected to provide illustrations and in-depth discussions for some of the major findings of Part I.

Big Data Analytics and Knowledge Discovery Sanjay Madria 2015-08-09 This book constitutes the refereed proceedings of the 17th International Conference on Data Warehousing and Knowledge Discovery, DaWaK 2015, held in Valencia, Spain, September 2015. The 31 revised full papers presented were carefully reviewed and selected from 90 submissions. The papers are organized in topical sections similarity measure and clustering; data mining; social computing; heterogeneos networks and data; data warehouses; stream processing; applications of big data analysis; and big data.

Privacy and Security Challenges in Location Aware Computing Saravanan, P. Shanthi 2021-04-23 Location-aware computing is a technology that uses the location (provides granular geographical information) of people and objects to derive contextual information. Today, one can obtain this location information free of cost through smartphones. Smartphones with location enabled applications have revolutionized the ways in which people perform their activities and get benefits from the automated services. It especially helps to get details of services in less time; wherever the user may be and whenever they want. The need for smartphones and location enabled applications has been growing year after year. Nowadays no one can leave without their phone; the phone seemingly becomes one of the parts of the human body. The individual can now be predicted by their phone and the identity of the phone becomes the person’s identity. Though there is a tremendous need for location-enabled applications with smartphones, the debate on privacy and security related to location data has also been growing. Privacy and Security Challenges in Location Aware Computing provides the latest research on privacy enhanced location-based applications development and exposes the necessity of location privacy preservation, as well as issues and challenges related to protecting the location data. It also suggests solutions for enhancing the protection of location privacy and therefore users’ privacy as well. The chapters highlight important topic areas such as video surveillance in human tracking/detection, geographical information system design, cyberspace attacks and warfare, and location aware security systems. The culmination of these topics creates a book that is ideal for security analysts, mobile application developers, practitioners, academicians, students, and researchers.

Setting Knowledge Free: The Journal of Issues in Informing Science and Information Technology Volume 5, 2008 Eli Cohen

Information Security and Privacy in Smart Devices: Tools, Methods, and Applications Rabadão, Carlos 2023-04-03 In recent years, smart devices have become commonplace in our daily lives. On the internet of things (IoT), these devices powered new intelligent services. Their application enabled the rise of intelligent cities, smart agriculture, and Industry 4.0. However, smart devices collect and share large amounts of data, including the habits and preferences of their users. Cybersecurity incidents in intelligent environments may impact services used by millions across the world and make private information public. Information Security and Privacy in Smart Devices: Tools, Methods, and Applications presents research challenges, innovative insights, and trends related to solutions, methods, processes, and applications for maintaining information security and privacy in intelligent environments. Covering topics such as information retrieval methods, electronic health records, and misinformation detection, this premier reference source is an excellent resource for security professionals, government officials, business leaders and executives, IT managers, hospital administrators, students of higher education, librarians, researchers, and academicians.

Information Security Handbook Noor Zaman Jhanjhi 2022-02-17 This handbook provides a comprehensive collection of knowledge for emerging multidisciplinary research areas such as cybersecurity, IoT, Blockchain, Machine Learning, Data Science, and AI. This book brings together, in one resource, information security across multiple domains. Information Security Handbook addresses the knowledge for emerging multidisciplinary research. It explores basic and high-level concepts and serves as a manual for industry while also helping beginners to understand both basic and advanced aspects in security-related issues. The handbook explores security and privacy issues through the IoT ecosystem and implications to the real world and, at the same time, explains the concepts of IoT-related technologies, trends, and future directions. University graduates and postgraduates, as well as research scholars, developers, and end-users, will find this handbook very useful.

Privacy, Security, and Trust in KDD Francesco Bonchi 2009-05-25 Privacy, security, and trust in data mining are crucial and related issues that havecapturedthe attentionofmany researchers,administrators,andlegislators. Consequently, data mining for improved security and the study of suitable trust models, as well as data mining side-e?ects on privacy, have rapidly become a hot and lively research area. The issues are rooted in the real-

worldand concern academia, industry, government, and society in general. The issues are global, andmanygovernmentsarestrugglingtosetnationalandinternationalpolicieson privacy, security, and trust for data mining endeavors. In industry, this is made evident by the fact that major corporations, many of which are key suppo- ers of knowledge discovery and data mining (KDD) including IBM, Microsoft, and Yahoo!, are allocating signi?cant resources to study and develop comm- cial products that address these issues. For example, at last year's PinKDD workshop, researchers from Yahoo! Research won the best paper awardfor their analysisof privacy issues in search queries. Beyondresearch,IBM has sponsored 1 2 aPrivacyInstitute and developed products, such as Hippocratic Databases . These e?orts have only scratched the surface of the problem, and there remain many open research issues for further investigation. For instance, the National Science Foundationrecently funded the multi-institutional Teamfor Researchin 3 SecureTechnologies (TRUST)whereprivacy-preservingdataminingisaprin- pal focus of researchers'workin areasranging from healthcare to wirelesssensor networks. The analysis of the security, privacy, and trust aspects of data mining has begun, but they are still relatively new concepts and require workshops to promote public awareness and to present emerging research.

Digital Libraries: People, Knowledge, and Technology International Conference on Asian Digital Libraries 2002-11-29 This book constitutes the refereed proceedings of the 5th International Conference on Asian Digitial Libraries, ICADL 2002, held in Singapore in December 2002. The 34 revised full papers, 20 revised short papers, and 14 posters presented together with 7 invited papers were carefully reviewed and selected from a total of 170 submissions. The papers are organized in sections on information retrieval, multimedia digital libraries, data mining in digital libraries, special purpose digital libraries, digital library services, digital libraries for community building, information retrieval and Asian languages, building and using digital libraries, metadata issues, algorithms and protocols, human-computer interaction, and digital library infrastructure.

Computer Security, Privacy, and Politics Ramesh Subramanian 2008-01-01 "This book offers a review of recent developments of computer security, focusing on the relevance and implications of global privacy, law, and politics for society, individuals, and corporations.It compiles timely content on such topics as reverse engineering of software, understanding emerging computer exploits, emerging lawsuits and cases, global and societal implications, and protection from attacks on privacy"--Provided by publisher.

Human Aspects of Information Security, Privacy, and Trust Theo Tryfonas 2014-06-07 This book constitutes the proceedings of the Second International Conference on Human Aspects of Information Security, Privacy, and Trust, HAS 2014, held as part of HCI International 2014 which took place in Heraklion, Crete, Greece, in June 2014 and incorporated 14 conferences which similar thematic areas. HCII 2014 received a total of 4766 submissions, of which 1476 papers and 220 posters were accepted for publication after a careful reviewing process. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The 38 papers presented in the HAS 2014 proceedings are organized in topical sections named: usable security; authentication and passwords; security policy and awareness; human behaviour in cyber security and privacy issues.

Technoethics and the Evolving Knowledge Society: Ethical Issues in Technological Design, Research, Development, and Innovation Luppicini, Rocci 2010-01-31 "This book introduces the reader to the key concepts and issues that comprise the emerging field of Technoethics, the interdisciplinary field concerned with all ethical aspects of technology within a society shaped by technology"--Provided by publisher.

Big Data and Knowledge Sharing in Virtual Organizations Gyamfi, Albert 2019-01-25 Knowledge in its pure state is tacit in nature—difficult to formalize and communicate—but can be converted into codified form and shared through both social interactions and the use of IT-based applications and systems. Even though there seems to be considerable synergies between the resulting huge data and the convertible knowledge, there is still a debate on how the increasing amount of data captured by corporations could improve decision making and foster innovation through effective knowledge-sharing practices. Big Data and Knowledge Sharing in Virtual Organizations provides innovative insights into the influence of big data analytics and artificial intelligence and the tools, methods, and techniques for knowledge-sharing processes in virtual organizations. The content within this publication examines cloud computing, machine learning, and knowledge sharing. It is designed for government officials and organizations, policymakers, academicians, researchers, technology developers, and students.

Terrorism Informatics Hsinchun Chen 2008-06-17 This book is nothing less than a complete and comprehensive survey of the state-of-the-art of terrorism informatics. It covers the application of advanced methodologies and information fusion and analysis. It also lays out techniques to acquire, integrate, process, analyze, and manage the diversity of terrorism-related information for international and homeland security-related applications. The book details three major areas of terrorism research: prevention, detection, and established governmental responses to terrorism. It systematically examines the current and ongoing research, including recent case studies and application of terrorism informatics techniques. The coverage then presents the critical and relevant social/technical areas to terrorism research including social, privacy, data confidentiality, and legal challenges.

Managing an Information Security and Privacy Awareness and Training Program Rebecca Herold 2005-04-26 Managing an Information Security and Privacy Awareness and Training Program provides a starting point and an all-in-one resource for infosec and privacy education practitioners who are building programs for their organizations. The author applies knowledge obtained through her work in education, creating a comprehensive resource of nearly everything involved with managing an infosec and privacy training course. This book includes examples and tools from a wide range of businesses, enabling readers to select effective components that will be beneficial to their enterprises. The text progresses from the inception of an education program through development, implementation, delivery, and evaluation.

Privacy and Security Issues in Big Data Pradip Kumar Das 2021-04-23 This book focuses on privacy and security concerns in big data and differentiates between privacy and security and privacy requirements in big data. It focuses on the results obtained after applying a systematic mapping study and implementation of security in the big data for utilizing in business under the establishment of “Business Intelligence”. The chapters start with the definition of big data, discussions why security is used in business infrastructure and how the security can be improved. In this book, some of the data security and data protection techniques are focused and it presents the challenges and suggestions to meet the

requirements of computing, communication and storage capabilities for data mining and analytics applications with large aggregate data in business.
Enhancing Access to and Sharing of Data Reconciling Risks and Benefits for Data Re-use across Societies OECD 2019-11-26 This report examines the opportunities of enhancing access to and sharing of data (EASD) in the context of the growing importance of artificial intelligence and the Internet of Things. It discusses how EASD can maximise the social and economic value of data re-use and how the related risks and challenges can be addressed. It highlights the trade-offs, complementarities and possible unintended consequences of policy action – and inaction. It also provides examples of EASD approaches and policy initiatives in OECD countries and partner economies.
Semantic Models in IoT and eHealth Applications Sanju Mishra Tiwari 2022-10-01 Semantic Models in IoT and eHealth Applications explores the key role of semantic web modeling in eHealth technologies, including remote monitoring, mobile health, cloud data and biomedical ontologies. The book explores different challenges and issues through the lens of various case studies of healthcare systems currently adopting these technologies. Chapters introduce the concepts of semantic interoperability within a healthcare model setting and explore how semantic representation is key to classifying, analyzing and understanding the massive amounts of biomedical data being generated by connected medical devices. Continuous health monitoring is a strong solution which can provide eHealth services to a community through the use of IoT-based devices that collect sensor data for efficient health diagnosis, monitoring and treatment. All of this collected data needs to be represented in the form of ontologies which are considered the cornerstone of the Semantic Web for knowledge sharing, information integration and information extraction. Presents comprehensive coverage of advances in the application of semantic web in the field of eHealth Explores different challenges and issues through various case studies of healthcare systems that are adopting semantic web technologies Covers applications across a range of eHealth technologies, including remote monitoring and mobile health
Knowledge Science, Engineering and Management Han Qiu 2021-08-07 This three-volume set constitutes the refereed proceedings of the 14th International Conference on Knowledge Science, Engineering and Management, KSEM 2021, held in Tokyo, Japan, in August 2021. The 164 revised full papers were carefully reviewed and selected from 492 submissions. The contributions are organized in the following topical sections: knowledge science with learning and AI; knowledge engineering research and applications; knowledge management with optimization and security.
Blockchain for Healthcare Systems Sheikh Mohammad Idrees 2021-09-21 Blockchain for Healthcare Systems: Challenges, Privacy, and Securing of Data provides a detailed insight on how to reap the benefits of blockchain technology in healthcare, as the healthcare sector faces several challenges associated with privacy and security issues. It also provides in-depth knowledge regarding blockchain in healthcare and the underlying components. This book explores securing healthcare data using blockchain technology. It discusses challenges and solutions for blockchain technology in the healthcare sector and presents the digital transformation of the healthcare sector using different technologies. It covers the handling of healthcare data/medical records and managing the medical supply chain all using blockchain technology. The contents of this book are highly beneficial to educators, researchers, and others working in a similar domain.
Handbook of Big Data Privacy Kim-Kwang Raymond Choo 2020-03-18 This handbook provides comprehensive knowledge and includes an overview of the current state-of-the-art of Big Data Privacy, with chapters written by international world leaders from academia and industry working in this field. The first part of this book offers a review of security challenges in critical infrastructure and offers methods that utilize acritical intelligence (AI) techniques to overcome those issues. It then focuses on big data security and privacy issues in relation to developments in the Industry 4.0. Internet of Things (IoT) devices are becoming a major source of security and privacy concern in big data platforms. Multiple solutions that leverage machine learning for addressing security and privacy issues in IoT environments are also discussed this handbook. The second part of this handbook is focused on privacy and security issues in different layers of big data systems. It discusses about methods for evaluating security and privacy of big data systems on network, application and physical layers. This handbook elaborates on existing methods to use data analytic and AI techniques at different layers of big data platforms to identify privacy and security attacks. The final part of this handbook is focused on analyzing cyber threats applicable to the big data environments. It offers an in-depth review of attacks applicable to big data platforms in smart grids, smart farming, FinTech, and health sectors. Multiple solutions are presented to detect, prevent and analyze cyber-attacks and assess the impact of malicious payloads to those environments. This handbook provides information for security and privacy experts in most areas of big data including; FinTech, Industry 4.0, Internet of Things, Smart Grids, Smart Farming and more. Experts working in big data, privacy, security, forensics, malware analysis, machine learning and data analysts will find this handbook useful as a reference. Researchers and advanced-level computer science students focused on computer systems, Internet of Things, Smart Grid, Smart Farming, Industry 4.0 and network analysts will also find this handbook useful as a reference.
Information Diffusion Management and Knowledge Sharing: Breakthroughs in Research and Practice Management Association, Information Resources 2019-10-11 Within the past 10 years, tremendous innovations have been brought forth in information diffusion and management. Such technologies as social media have transformed the way that information is disseminated and used, making it critical to understand its distribution through these mediums. With the consistent creation and wide availability of information, it has become imperative to remain updated on the latest trends and applications in this field. Information Diffusion Management and Knowledge Sharing: Breakthroughs in Research and Practice examines the trends, models, challenges, issues, and strategies of information diffusion and management from a global context. Highlighting a range of topics such as influence maximization, information spread control, and social influence, this publication is an ideal reference source for managers, librarians, information systems specialists, professionals, researchers, and administrators seeking current research on the theories and applications of global information management.
Security and Privacy in the Internet of Things Ali Ismail Awad 2021-12-29 SECURITY AND PRIVACY IN THE INTERNET OF THINGS Provides the authoritative and up-to-date information required for securing IoT architecture and applications The vast amount of data generated by the Internet of Things (IoT) has made information and cyber security vital for not only personal privacy, but also for the sustainability of the IoT itself. Security and Privacy in the Internet of Things brings together high-quality research on IoT security models, architectures, techniques, and application domains. This

concise yet comprehensive volume explores state-of-the-art mitigations in IoT security while addressing important security and privacy challenges across different IoT layers. The book provides timely coverage of IoT architecture, security technologies and mechanisms, and applications. The authors outline emerging trends in IoT security and privacy with a focus on areas such as smart environments and e-health. Topics include authentication and access control, attack detection and prevention, securing IoT through traffic modeling, human aspects in IoT security, and IoT hardware security. Presenting the current body of knowledge in a single volume, Security and Privacy in the Internet of Things: Discusses a broad range of IoT attacks and defense mechanisms Examines IoT security and privacy protocols and approaches Covers both the logical and physical security of IoT devices Addresses IoT security through network traffic modeling Describes privacy preserving techniques in smart cities Explores current threat and vulnerability analyses Security and Privacy in the Internet of Things: Architectures, Techniques, and Applications is essential reading for researchers, industry practitioners, and students involved in IoT security development and IoT systems deployment.

Cybersecurity and Privacy in Cyber Physical Systems Yassine Maleh 2019-05-01 Cybersecurity and Privacy in Cyber-Physical Systems collects and reports on recent high-quality research that addresses different problems related to cybersecurity and privacy in cyber-physical systems (CPSs). It Presents high-quality contributions addressing related theoretical and practical aspects Improves the reader’s awareness of cybersecurity and privacy in CPSs Analyzes and presents the state of the art of CPSs, cybersecurity, and related technologies and methodologies Highlights and discusses recent developments and emerging trends in cybersecurity and privacy in CPSs Proposes new models, practical solutions, and technological advances related to cybersecurity and privacy in CPSs Discusses new cybersecurity and privacy models, prototypes, and protocols for CPSs This comprehensive book promotes high-quality research by bringing together researchers and experts in CPS security and privacy from around the world to share their knowledge of the different aspects of CPS security. Cybersecurity and Privacy in Cyber-Physical Systems is ideally suited for policymakers, industrial engineers, researchers, academics, and professionals seeking a thorough understanding of the principles of cybersecurity and privacy in CPSs. They will learn about promising solutions to these research problems and identify unresolved and challenging problems for their own research. Readers will also have an overview of CPS cybersecurity and privacy design.

Data Warehousing and Mining: Concepts, Methodologies, Tools, and Applications Wang, John 2008-05-31 In recent years, the science of managing and analyzing large datasets has emerged as a critical area of research. In the race to answer vital questions and make knowledgeable decisions, impressive amounts of data are now being generated at a rapid pace, increasing the opportunities and challenges associated with the ability to effectively analyze this data.

Security Issues and Privacy Threats in Smart Ubiquitous Computing Parikshit N. Mahalle 2021-04-08 This book extends the work from introduction of ubiquitous computing, to the Internet of things to security and to privacy aspects of ubiquitous computing. The uniqueness of this book is the combination of important fields like the Internet of things and ubiquitous computing. It assumes that the readers’ goal is to achieve a complete understanding of IoT, smart computing, security issues, challenges and possible solutions. It is not oriented towards any specific use cases and security issues; privacy threats in ubiquitous computing problems are discussed across various domains. This book is motivating to address privacy threats in new inventions for a wide range of stakeholders like layman to educated users, villages to metros and national to global levels. This book contains numerous examples, case studies, technical descriptions, scenarios, procedures, algorithms and protocols. The main endeavour of this book is threat analysis and activity modelling of attacks in order to give an actual view of the ubiquitous computing applications. The unique approach will help readers for a better understanding.

Health Data in the Information Age Institute of Medicine 1994-01-01 Regional health care databases are being established around the country with the goal of providing timely and useful information to policymakers, physicians, and patients. But their emergence is raising important and sometimes controversial questions about the collection, quality, and appropriate use of health care data. Based on experience with databases now in operation and in development, Health Data in the Information Age provides a clear set of guidelines and principles for exploiting the potential benefits of aggregated health dataâ€"without jeopardizing confidentiality. A panel of experts identifies characteristics of emerging health database organizations (HDOs). The committee explores how HDOs can maintain the quality of their data, what policies and practices they should adopt, how they can prepare for linkages with computer-based patient records, and how diverse groups from researchers to health care administrators might use aggregated data. Health Data in the Information Age offers frank analysis and guidelines that will be invaluable to anyone interested in the operation of health care databases.

Cybersecurity: The Essential Body Of Knowledge Dan Shoemaker 2011-05-17 CYBERSECURITY: THE ESSENTIAL BODY OF KNOWLEDGE provides a comprehensive, trustworthy framework of practices for assuring information security. This book is organized to help readers understand how the various roles and functions within cybersecurity practice can be combined and leveraged to produce a secure organization. In this unique book, concepts are not presented as stagnant theory; instead, the content is interwoven in a real world adventure story that runs throughout. In the story, a fictional company experiences numerous pitfalls of cyber security and the reader is immersed in the everyday practice of securing the company through various characters' efforts. This approach grabs learners' attention and assists them in visualizing the application of the content to real-world issues that they will face in their professional life. Derived from the Department of Homeland Security's Essential Body of Knowledge (EBK) for IT Security, this book is an indispensable resource dedicated to understanding the framework, roles, and competencies involved with information security. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Cybersecurity for Information Professionals Hsia-Ching Chang 2020-06-28 Information professionals have been paying more attention and putting a greater focus on privacy over cybersecurity. However, the number of both cybersecurity and privacy breach incidents are soaring, which indicates that cybersecurity risks are high and growing. Utilizing cybersecurity awareness training in organizations has been an effective tool to promote a cybersecurity-conscious culture, making individuals more cybersecurity-conscious as well. However, it is unknown if employees’ security behavior at work can be extended to their security behavior at home and personal life. On the one hand, information professionals need to inherit their role as data and information gatekeepers to safeguard data and information assets. On the other hand, information professionals can aid in enabling

effective information access and dissemination of cybersecurity knowledge to make users conscious about the cybersecurity and privacy risks that are often hidden in the cyber universe. Cybersecurity for Information Professionals: Concepts and Applications introduces fundamental concepts in cybersecurity and addresses some of the challenges faced by information professionals, librarians, archivists, record managers, students, and professionals in related disciplines. This book is written especially for educators preparing courses in information security, cybersecurity, and the integration of privacy and cybersecurity. The chapters contained in this book present multiple and diverse perspectives from professionals in the field of cybersecurity. They cover such topics as: Information governance and cybersecurity User privacy and security online and the role of information professionals Cybersecurity and social media Healthcare regulations, threats, and their impact on cybersecurity A socio-technical perspective on mobile cybersecurity Cybersecurity in the software development life cycle Data security and privacy Above all, the book addresses the ongoing challenges of cybersecurity. In particular, it explains how information professionals can contribute to long-term workforce development by designing and leading cybersecurity awareness campaigns or cybersecurity hygiene programs to change people's security behavior.

Developing Knowledge Societies for Distinct Country Contexts Lopes, Nuno Vasco 2020-12-18 Through knowledge societies, people have capabilities to acquire information and to transform that information into knowledge and information, which empowers them to enhance their lives and to contribute to the social-economic development. The practical application of knowledge into innovation and how this process from research to development to application can be achieved is a domain that is not yet very well understood. Developing Knowledge Societies for Distinct Country Contexts is an essential reference source that documents methods, best practices, and case studies for the development of global knowledge societies at the national, regional, and local levels. Featuring empirical analysis on topics such as smart governance, financial literacy, and globalization, this book is ideally designed for business strategists, economists, international researchers, anthropologists, politicians, policymakers, governmental sectors, academics, and students seeking coverage on the development of knowledge society policies and strategies in various areas of the world.

Privacy Vulnerabilities and Data Security Challenges in the IoT Shivani Agarwal 2020-11-23 This book discusses the evolution of security and privacy issues in the Internet of Things (IoT). The book focuses on assembling all security- and privacy-related technologies into a single source so that students, researchers, academics, and those in the industry can easily understand the IoT security and privacy issues. This edited book discusses the use of security engineering and privacy-by-design principles to design a secure IoT ecosystem and to implement cyber-security solutions. This book takes the readers on a journey that begins with understanding security issues in IoT-enabled technologies and how these can be applied in various sectors. It walks readers through engaging with security challenges and building a safe infrastructure for IoT devices. The book helps researchers and practitioners understand the security architecture of IoT and the state-of-the-art in IoT countermeasures. It also differentiates security threats in IoT-enabled infrastructure from traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on the security challenges and solutions in RFID and WSNs in IoT. This book aims to highlight the concepts of related technologies and novel findings by researchers through its chapter organization. The primary audience comprises specialists, researchers, graduate students, designers, experts, and engineers undertaking research on security-related issues.

Blockchain Cybersecurity, Trust and Privacy Kim-Kwang Raymond Choo 2020-03-02 This book provides the reader with the most up-to-date knowledge of blockchain in mainstream areas of security, trust, and privacy in the decentralized domain, which is timely and essential (this is due to the fact that the distributed and P2P applications is increasing day-by-day, and the attackers adopt new mechanisms to threaten the security and privacy of the users in those environments). This book also provides the technical information regarding blockchain-oriented software, applications, and tools required for the researcher and developer experts in both computing and software engineering to provide solutions and automated systems against current security, trust and privacy issues in the cyberspace. Cybersecurity, trust and privacy (CTP) are pressing needs for governments, businesses, and individuals, receiving the utmost priority for enforcement and improvement in almost any societies around the globe. Rapid advances, on the other hand, are being made in emerging blockchain technology with broadly diverse applications that promise to better meet business and individual needs. Blockchain as a promising infrastructural technology seems to have the potential to be leveraged in different aspects of cybersecurity promoting decentralized cyberinfrastructure. Blockchain characteristics such as decentralization, verifiability and immutability may revolve current cybersecurity mechanisms for ensuring the authenticity, reliability, and integrity of data. Almost any article on the blockchain points out that the cybersecurity (and its derivatives) could be revitalized if it is supported by blockchain technology. Yet, little is known about factors related to decisions to adopt this technology, and how it can systemically be put into use to remedy current CTP's issues in the digital world. Topics of interest for this book include but not limited to: Blockchain-based authentication, authorization and accounting mechanisms Applications of blockchain technologies in digital forensic and threat hunting Blockchain-based threat intelligence and threat analytics techniques Formal specification of smart contracts Automated tools for outsmarting smart contracts Security and privacy aspects of blockchain technologies Vulnerabilities of smart contracts Blockchain for securing cyber infrastructure and internet of things networks Blockchain-based cybersecurity education systems This book provides information for security and privacy experts in all the areas of blockchain, cryptocurrency, cybersecurity, forensics, smart contracts, computer systems, computer networks, software engineering, applied artificial intelligence for computer security experts, big data analysts, and decentralized systems. Researchers, scientists and advanced level students working in computer systems, computer networks, artificial intelligence, big data will find this book useful as well.

Pervasive Information Security and Privacy Developments: Trends and Advancements Nemati, Hamid 2010-07-31 Privacy and security concerns are at the forefront of research and critical study in the prevalence of information technology. Pervasive Information Security and Privacy Developments: Trends and Advancements compiles research on topics such as technical, regulatory, organizational, managerial, cultural, ethical, and human aspects of information security and privacy. This reference offers methodologies, research frameworks, theory development and validation, case studies, simulations, technological architectures, infrastructure issues in design, and

implementation of secure and privacy preserving initiatives.