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This book presents a remarkable collection of chapters that cover a wide range of topics in the areas of information and communication technologies and their real-world applications. It gathers the Proceedings of the Future of Information and Communication Conference 2019 (FICC 2019),

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held in San Francisco, USA from March 14 to 15, 2019. The conference attracted a total of 462 submissions from pioneering researchers, scientists, industrial engineers, and students from all around the world. Following a double-blind peer review process, 160 submissions (including 15 poster papers) were ultimately selected for inclusion in these proceedings. The papers highlight relevant trends in, and the latest research on: Communication, Data Science, Ambient Intelligence, Networking, Computing, Security, and the Internet of Things. Further, they address all aspects of Information Science and communication technologies, from classical to intelligent, and both the theory and

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applications of the latest technologies and methodologies. Gathering chapters that discuss state-of-the-art intelligent methods and techniques for solving real-world problems, along with future research directions, the book represents both an interesting read and a valuable asset.

Break down the misconceptions of the Internet of Things by examining the different security building blocks available in Intel Architecture (IA) based IoT platforms. This open access book reviews the threat pyramid, secure boot, chain of trust, and the SW stack leading up to defense-in-depth. The IoT presents unique challenges in implementing security and Intel has both CPU and Isolated Security Engine

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capabilities to simplify it. This book explores the challenges to secure these devices to make them immune to different threats originating from within and outside the network. The requirements and robustness rules to protect the assets vary greatly and there is no single blanket solution approach to implement security. Demystifying Internet of Things Security provides clarity to industry professionals and provides an overview of different security solutions. What You'll Learn Secure devices, immunizing them against different threats originating from inside and outside the network. Gather an overview of the different security building blocks available in Intel Architecture (IA) based IoT platforms. Understand the

threat pyramid, secure boot, chain of trust, and the software stack leading up to defense-in-depth Who This Book Is For Strategists, developers, architects, and managers in the embedded and Internet of Things (IoT) space trying to understand and implement the security in the IoT devices/platforms. This text is a critical and empirically-based introduction to disability studies. It offers a comprehensive, book-length analysis of disability through the lens of Science and Technology Studies (STS), and presents a practice-oriented discussion of how bodies, senses and things are linked in everyday life and configure "enabling" and "disabling" scenarios. Relevant to a broad spectrum of medical

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practitioners and practicing social service workers, the book will also be essential reading in the fields of disability studies, sociology of the body/senses, medical sociology and STS.

Apress is proud to announce that Rethinking the Internet of Things was a 2014 Jolt Award Finalist, the highest honor for a programming book. And the amazing part is that there is no code in the book. Over the next decade, most devices connected to the Internet will not be used by people in the familiar way that personal computers, tablets and smart phones are. Billions of interconnected devices will be monitoring the environment, transportation systems, factories, farms, forests, utilities, soil and weather

conditions, oceans and resources. Many of these sensors and actuators will be networked into autonomous sets, with much of the information being exchanged machine-to-machine directly and without human involvement. Machine-to-machine communications are typically terse. Most sensors and actuators will report or act upon small pieces of information - "chirps". Burdening these devices with current network protocol stacks is inefficient, unnecessary and unduly increases their cost of ownership. This must change. The architecture of the Internet of Things must evolve now by incorporating simpler protocols toward at the edges of the network, or remain forever inefficient. Rethinking the Internet

of Things describes reasons why we must rethink current approaches to the Internet of Things. Appropriate architectures that will coexist with existing networking protocols are described in detail. An architecture comprised of integrator functions, propagator nodes, and end devices, along with their interactions, is explored.

"The Internet has quickly evolved from being merely a medium for accessing interlinked hypertext documents across computers to the mighty Internet of Things (IoT). The IoT is still in its infancy and is yielding impressive benefits through unprecedented associations of real world problems and technological solutions. This is impairing our ability to perceive

novel vulnerabilities that the IoT presents. With the enormous amount of data and control that the cyber space would possess in the future, extending security and privacy solutions of the Internet, to the IoT might prove to be a catastrophic decision. Hence, it is best to rethink the security and privacy of the IoT. This thesis attempts to comprehensively recognize and analyze the vulnerable features of the IoT, which could be exploited to pose various forms of threats to the IoT ecosystem. The thesis also presents a threat taxonomy for the IoT. Three broad classes of threats have been established: System Security Threats, Privacy Threats, and Reflective Trust and Reputation Threats. Under each class, threats have been

specialized based on relevant factors. The taxonomy is designed to create specialized threat spaces. This would refine threat recognition and safeguarding during the device and application design and deployment phases, and detection, isolation and containment of attacks during the operational phase. This thesis organizes the available and developing solutions to mitigate these threats, and discusses some directions of future works. Finally the thesis proposes the novel philosophy of Social Governance, which recognizes the service and device manufacturers, the policy makers, and the users of the devices and services, as the three pivotal drivers of a networked society. It endorses development of a

new framework to facilitate the free flow of information among the drivers to foster an expeditious, organized and secure IoT development. The framework would optimize policy formulation, enforcement (through Hierarchical Distributed Policy Management System) and adherence (through Policy Compliant Smart Devices). Formulating comprehensive threat taxonomies for the IoT, like the one proposed in this thesis and designing an exclusive framework for the IoT to promote adequate information flow and effective implementation of security and privacy would contribute in building a robust networked society." --
Over the past two decades, we have witnessed

unprecedented innovations in the development of miniaturized electromechanical devices and low-power wireless communication making practical the embedding of networked computational devices into a rapidly widening range of material entities. This trend has enabled the coupling of physical objects and digital information into cyber-physical systems and it is widely expected to revolutionize the way resource computational consumption and provision will occur. Specifically, one of the core ingredients of this vision, the so-called Internet of Things (IoT), demands the provision of networked services to support interaction between conventional IT systems with both physical and artificial objects. In this way,

IoT is seen as a combination of several emerging technologies, which enables the transformation of everyday objects into smart objects. It is also perceived as a paradigm that connects real world with digital world. The focus of this book is exactly on the novel collective and computational intelligence technologies that will be required to achieve this goal. While, one of the aims of this book is to discuss the progress made, it also prompts future directions on the utilization of inter-operable and cooperative next generation computational technologies, which supports the IoT approach, that being an advanced functioning towards an integrated collective intelligence approach for the benefit of various

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organizational settings.

While creating new forms (Shari'ah-compliant standards) to operationalize Islamic values and ethics into the current conventional economic system and banking products is crucial to sustain the Islamic economy as it is today, we also need to develop new strategies to cope with the next economic evolution. The digital revolution in financial services is under way, and digital disruption has the potential to shrink the role and relevance of today's banks, while simultaneously creating better, faster, cheaper services that will be an essential part of everyday life. This forward-looking book discusses the crucial innovation, structural and institutional development

for financial technologies (fintech) in Islamic finance. The authors explain concepts in fintech and blockchain technology and follow through with their applications, challenges and evolving nature. The book provides insights into technology which will enable and enhance actual prescribed Islamic behaviors in modern economic transactions. Case studies highlight how to cope with modern transactional behavior with the advent of global online/mobile markets, shorter attention spans, and impersonal trade exchange. Experimenting with new ways of looking at the contexts, subjects, processes and multiple political stances that make up life at the margins, this book

provides a novel source for a critical rethinking of marginalisation. Drawing on post-colonialism and critical assemblage thinking, the rich ethnographic works presented in the book trace the assemblage of marginality in multiple case-studies encompassing the Global North and South. These works are united by the approach developed in the book, characterised by the refusal of a priori definitions and by a post-human and grounded take on the assemblage of life. The result is a nuanced attention to the potential expressed by everyday articulations and a commitment to produce a processual, vitalist and non-normative cultural politics of the margins. The reader will find in this book unique challenges to accepted

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and authoritative thinking, and provides new insights into researching life at the margins.

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Privacy and Identity Management. Data for Better Living: AI and Privacy

Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications

7th International Conference, iSCI2019, Guangzhou, China, November 12-15, 2019, Proceedings

As an emerging global phenomenon, Islamic economics and the financial system has expanded exponentially in recent decades.

Many components of the industry are still unknown, but hopefully, the lack of awareness will soon be stilled. The

Handbook of Research on Theory and Practice of Global Islamic Finance provides emerging research on the latest global Islamic economic practices. The content within this publication

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examines risk management, economic justice, and stock market analysis. It is designed for financiers, banking professionals, economists, policymakers, researchers, academicians, and students interested in ideas centered on the development and practice of Islamic finance.

We used to know how to know. We got our answers from books or experts. We'd nail down the facts and move on. But in the Internet age, knowledge has moved onto networks. There's more knowledge than ever, of course, but it's different. Topics have no boundaries, and nobody agrees on anything. Yet this is the greatest time in history to be a knowledge seeker . . . if you know how. In *Too Big to Know*, Internet philosopher David Weinberger shows how business, science, education, and the

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government are learning to use networked knowledge to understand more than ever and to make smarter decisions than they could when they had to rely on mere books and experts.

This groundbreaking book shakes the foundations of our concept of knowledge—from the role of facts to the value of books and the authority of experts—providing a compelling vision of the future of knowledge in a connected world.

Brexit will have significant consequences for the country, for Europe, and for global order. And yet much discussion of Brexit in the UK has focused on the causes of the vote and on its consequences for the future of British politics. This volume examines the consequences of Brexit for the future of Europe and the European Union, adopting an explicitly regional and future-

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oriented perspective missing from many existing analyses. Drawing on the expertise of 28 leading scholars from a range of disciplines, *Brexit and Beyond* offers various different perspectives on the future of Europe, charting the likely effects of Brexit across a range of areas, including institutional relations, political economy, law and justice, foreign affairs, democratic governance, and the idea of Europe itself. Whilst the contributors offer divergent predictions for the future of Europe after Brexit, they share the same conviction that careful scholarly analysis is in need – now more than ever – if we are to understand what lies ahead for the EU. Praise for *Brexit and Beyond* 'a wide-ranging and thought-provoking tour through the vagaries of British exit, with the question of Europe ' s fate never far from sight...Brexit is

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a wake-up call for the EU. How it responds is an open question—but respond it must. To better understand its options going forward you should turn to this book, which has also been made free online.' Prospect Magazine 'This book explores wonderfully well the bombshell of Brexit: is it a uniquely British phenomenon or part of a wider, existential crisis for the EU? As the tensions and complexities of the Brexit negotiations come to the fore, the collection of essays by leading scholars will prove a very valuable reference for their depth of analysis, their lucidity, and their outlining of future options.' - Kevin Featherstone, Head of the LSE European Institute, London School of Economics 'Brexit and Beyond is a must read. It moves the ongoing debate about what Brexit actually means to a whole new level. While

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many scholars to date have examined the reasons for the British decision to leave, the crucial question of what Brexit will mean for the future of the European project is often overlooked. No longer. *Brexit and Beyond* bundles the perspectives of leading scholars of European integration. By doing so, it provides a much needed scholarly guidepost for our understanding of the significance of Brexit, not only for the United Kingdom, but also for the future of the European continent.' - Catherine E. De Vries, Professor in the department of Government, University of Essex and Professor in the department of Political Science and Public Administration Free University Amsterdam 'Brexit and Beyond provides a fascinating (and comprehensive) analysis on the how and why the UK has found itself on the path to exiting

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the European Union. The talented cast of academic contributors is drawn from a wide variety of disciplines and areas of expertise and this provides a breadth and depth to the analysis of Brexit that is unrivalled. The volume also provides large amounts of expert-informed speculation on the future of both the EU and UK and which is both stimulating and anxiety-inducing.'

-Professor Richard Whitman, Head of School, Professor of Politics and International Relations, Director of the Global Europe Centre, University of Kent

For business managers, the biggest question surrounding the Internet of Things is what to do with it. This book examines the way IoT is being used today -- and will be used in the future -- to help you craft a robust plan for your organization. Focusing on

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the business implications of Internet of Things, Kranz describes the sheer impact, spread, and opportunities arising every day, and how business leaders can implement Internet of Things today to realize tangible business advantages.

Rethinking Aggression and Violence in Sport explores the psychological aspects of these two intrinsic elements of competitive sport. This book critically examines the important issues associated with aggression and violence in sport, including:

- * a review of current theory in the psychology of aggression
- * exploration of how players become acclimatised to physical violence
- * discussion of the psychological benefits of sanctioned and unsanctioned sport violence
- * examination of the moral and ethical dimensions of the debate
- * the psychological basis of

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spectator aggression * case studies from a wide variety of sports. This text is a must read for researchers and students within sport studies, psychology and sociology with an interest in human violence and aggressive behaviour.

This book introduces the reader to the fundamentals of contemporary, emerging and future technologies and services in Internet computing. It covers essential concepts such as distributed systems architectures and web technologies, contemporary paradigms such as cloud computing and the Internet of things, and emerging technologies like distributed ledger technologies and fog computing. The book also highlights the interconnection and recombination of these Internet-based technologies, which together form a critical information

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infrastructure with major impacts on individuals, organizations, governments, economies, and society as a whole. Intended as a textbook for upper undergraduate and graduate classes, it features a wealth of examples, learning goals and summaries for every chapter, numerous recommendations for further reading, and questions for checking students' comprehension. A dedicated author website offers additional teaching material and more elaborate examples. Accordingly, the book enables students and young professionals in IT-related fields to familiarize themselves with the Internet's basic mechanisms, and with the most promising Internet-based technologies of our time. Rethinking the Internet of Things A Scalable Approach to Connecting Everything Apress

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Cognitive Hyperconnected Digital Transformation provides an overview of the current Internet of Things (IoT) landscape, ranging from research, innovation and development priorities to enabling technologies in a global context. It is intended as a standalone book in a series that covers the Internet of Things activities of the IERC-Internet of Things European Research Cluster, including both research and technological innovation, validation and deployment. The book builds on the ideas put forward by the European Research Cluster, the IoT European Platform Initiative (IoT-EPI) and the IoT European Large-Scale Pilots Programme, presenting global views and state-of-the-art results regarding the challenges facing IoT research, innovation, development and deployment in the next years. Hyperconnected

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environments integrating industrial/business/consumer IoT technologies and applications require new IoT open systems architectures integrated with network architecture (a knowledge-centric network for IoT), IoT system design and open, horizontal and interoperable platforms managing things that are digital, automated and connected and that function in real-time with remote access and control based on Internet-enabled tools. The IoT is bridging the physical world with the virtual world by combining augmented reality (AR), virtual reality (VR), machine learning and artificial intelligence (AI) to support the physical-digital integrations in the Internet of mobile things based on sensors/actuators, communication, analytics technologies, cyber-physical systems, software, cognitive systems and IoT platforms

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with multiple functionalities. These IoT systems have the potential to understand, learn, predict, adapt and operate autonomously. They can change future behaviour, while the combination of extensive parallel processing power, advanced algorithms and data sets feed the cognitive algorithms that allow the IoT systems to develop new services and propose new solutions. IoT technologies are moving into the industrial space and enhancing traditional industrial platforms with solutions that break free of device-, operating system- and protocol-dependency. Secure edge computing solutions replace local networks, web services replace software, and devices with networked programmable logic controllers (NPLCs) based on Internet protocols replace devices that use proprietary protocols.

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Information captured by edge devices on the factory floor is secure and accessible from any location in real time, opening the communication gateway both vertically (connecting machines across the factory and enabling the instant availability of data to stakeholders within operational silos) and horizontally (with one framework for the entire supply chain, across departments, business units, global factory locations and other markets). End-to-end security and privacy solutions in IoT space require agile, context-aware and scalable components with mechanisms that are both fluid and adaptive. The convergence of IT (information technology) and OT (operational technology) makes security and privacy by default a new important element where security is addressed at the architecture level, across applications and

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domains, using multi-layered distributed security measures.

Blockchain is transforming industry operating models by adding trust to untrusted environments, providing distributed security mechanisms and transparent access to the information in the chain. Digital technology platforms are evolving, with IoT platforms integrating complex info

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[Experts Are Everywhere, and the Smartest Person in the Room Is the Room](#)

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[Internet Computing](#)

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[Proceedings of the 35th International Conference on Advanced Information Networking and Applications \(AINA-2021\),](#)

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This book provides a comprehensive overview

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of the most relevant research and standardization results in the area of wireless networking for Industrial IoT, covering both critical and massive connectivity. Most chapters in this book are intended to serve as short tutorials of particular topics, highlighting the main developments and ideas, as well as giving an outlook of the upcoming research challenges. The book is divided into four parts. The first part focuses on challenges, enablers and standardization efforts for reliable low-latency communication in Industrial IoT networks. The next part focuses on massive

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IoT, which requires cost- and energy-efficient technology components to efficiently connect a massive number of low-cost IoT devices. The third part covers three enabling technologies in the context of Industrial IoT: Security, Machine Learning/Artificial Intelligence and Edge Computing. These enablers are applicable to both connectivity types, critical and massive IoT. The last part covers aspects of Industrial IoT related to connected transportation that are important in, for example, warehouse and port logistics, product delivery and transportation among

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industries. Presents a comprehensive guide to concepts and research challenges in wireless networking for Industrial IoT; Includes an introduction and overview of such topics as 3GPP standardization for Industrial IoT, Time Sensitive Networking, system dependability over wireless networks, energy-efficient wireless networks, IoT security, ML/AI for Industrial IoT and connected transportation systems; Features contributions by well-recognized experts from both academia and industry.

This book provides a comprehensive survey of the security and privacy research

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advancements in Internet of Things (IoT). The book lays the context for the discussion by introducing a system model for IoT. Since IoT is very varied and has been introduced in many different contexts, the system model introduced plays a crucial role in integrating the concepts into a coherent framework. After the system model, the book introduces the vulnerable features of the IoT. By providing a comprehensive discussion of the vulnerable features, the book highlights the problem areas of IoT that should be studied concerning security and privacy. Using the vulnerable features as a

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motivation, the book presents a vast survey of existing security and privacy approaches for IoT. The survey is a good way for the reader to pick up interesting directions of research that have already been explored and also hints at directions that could take additional investigation. Finally, the book presents four case studies that provide a detailed view of how some of the security and privacy concerns are addressed in specific problem areas.

The focus of the Congress will be leading-edge manufacturing processes. Topics include manufacturing at extreme speed, size,

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accuracy, methodology, use of resources, interdisciplinarity and more. Contributions from production and industrial engineering are welcome. Challenges from the areas of manufacturing, machines and production systems will be addressed. Production research constantly pushes the boundaries of what is feasible. The Congress "Production at the leading edge of technology" will highlight production processes that are advancing into areas that until recently were considered unfeasible, also in terms of methodology, use of resources and interdisciplinarity. But where does the

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search for new limits lead? Which limitations do we still have to overcome, which ones do we not want to overcome? The aim of the German-speaking colloquium is to establish connections between the research locations and to intensify the overall transfer of results and experience with industrial users. This ground-breaking and timely book explores how big data, artificial intelligence and algorithms are creating new types of agency, and the impact that this is having on our lives and the rule of law. Addressing the issues in a thoughtful, cross-disciplinary manner, leading scholars in law, philosophy,

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computer science and politics examine the ways in which data-driven agency is transforming democratic practices and the meaning of individual choice.

As the use of remote work has recently skyrocketed, digital transformation within the workplace has gone under a microscope, and it has become abundantly clear that the incorporation of new technologies in the workplace is the future of business. These technologies keep businesses up to date with their capabilities to perform remote work and make processes more efficient and effective than ever before. In understanding digital

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transformation in the workplace there needs to be advanced research on technology, organizational change, and the impacts of remote work on the business, the employees, and day-to-day work practices. This advancement to a digital work culture and remote work is rapidly undergoing major advancements, and research is needed to keep up with both the positives and negatives to this transformation. The Research Anthology on Digital Transformation, Organizational Change, and the Impact of Remote Work contains hand-selected, previously published research that explores the impacts of remote

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work on business workplaces while also focusing on digital transformation for improving the efficiency of work. While highlighting work technologies, digital practices, business management, organizational change, and the effects of remote work on employees, this book is an all-encompassing research work intended for managers, business owners, IT specialists, executives, practitioners, stakeholders, researchers, academicians, and students interested in how digital transformation and remote work is affecting workplaces. This extraordinary book explains the engine

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that has catapulted the Internet from backwater to ubiquity—and reveals that it is sputtering precisely because of its runaway success. With the unwitting help of its users, the generative Internet is on a path to a lockdown, ending its cycle of innovation—and facilitating unsettling new kinds of control. iPods, iPhones, Xboxes, and TiVos represent the first wave of Internet-centered products that can't be easily modified by anyone except their vendors or selected partners. These “tethered appliances” have already been used in remarkable but little-known ways: car GPS

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systems have been reconfigured at the demand of law enforcement to eavesdrop on the occupants at all times, and digital video recorders have been ordered to self-destruct thanks to a lawsuit against the manufacturer thousands of miles away. New Web 2.0 platforms like Google mash-ups and Facebook are rightly touted—but their applications can be similarly monitored and eliminated from a central source. As tethered appliances and applications eclipse the PC, the very nature of the Internet—its “generativity,” or innovative character—is at risk. The Internet's current trajectory is one of lost

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opportunity. Its salvation, Zittrain argues, lies in the hands of its millions of users. Drawing on generative technologies like Wikipedia that have so far survived their own successes, this book shows how to develop new technologies and social structures that allow users to work creatively and collaboratively, participate in solutions, and become true "netizens."

The censorship and surveillance of individuals, societies, and countries have been a long-debated ethical and moral issue. In consequence, it is vital to explore this controversial topic from all angles.

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Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications is a vital reference source on the social, moral, religious, and political aspects of censorship and surveillance. It also explores the techniques of technologically supported censorship and surveillance. Highlighting a range of topics such as political censorship, propaganda, and information privacy, this multi-volume book is geared towards government officials, leaders, professionals, policymakers, media specialists, academicians, and researchers interested in the various facets of

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ensorship and surveillance.

This book contains selected papers presented at the 14th IFIP WG 9.2, 9.6/11.7, 11.6/SIG 9.2.2 International Summer School on Privacy and Identity Management, held in Windisch, Switzerland, in August 2019. The 22 full papers included in this volume were carefully reviewed and selected from 31 submissions. Also included are reviewed papers summarizing the results of workshops and tutorials that were held at the Summer School as well as papers contributed by several of the invited speakers. The papers combine interdisciplinary approaches to bring

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together a host of perspectives, which are reflected in the topical sections: language and privacy; law, ethics and AI; biometrics and privacy; tools supporting data protection compliance; privacy classification and security assessment; privacy enhancing technologies in specific contexts. The chapters "What Does Your Gaze Reveal About You? On the Privacy Implications of Eye Tracking" and "Privacy Implications of Voice and Speech Analysis - Information Disclosure by Inference" are open access under a CC BY 4.0 license at link.springer.com.

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Rethinking Health Care Ethics

Next-Generation Wireless Technologies

?The goal of this open access book is to develop an approach to clinical health care ethics that is more accessible to, and usable by, health professionals than the now-dominant approaches that focus, for example, on the application of ethical principles. The book elaborates the view that health professionals have the emotional and intellectual resources to discuss and address ethical issues in clinical health care without needing to rely on the expertise of bioethicists. The early chapters review the

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history of bioethics and explain how academics from outside health care came to dominate the field of health care ethics, both in professional schools and in clinical health care. The middle chapters elaborate a series of concepts, drawn from philosophy and the social sciences, that set the stage for developing a framework that builds upon the individual moral experience of health professionals, that explains the discontinuities between the demands of bioethics and the experience and perceptions of health professionals, and that enables the articulation of a full theory of clinical

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ethics with clinicians themselves as the foundation. Against that background, the first of three chapters on professional education presents a general framework for teaching clinical ethics; the second discusses how to integrate ethics into formal health care curricula; and the third addresses the opportunities for teaching available in clinical settings. The final chapter, "Empowering Clinicians", brings together the various dimensions of the argument and anticipates potential questions about the framework developed in earlier chapters.

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This comprehensive text/reference examines the various challenges to secure, efficient and cost-effective next-generation wireless networking. Topics and features: presents the latest advances, standards and technical challenges in a broad range of emerging wireless technologies; discusses cooperative and mesh networks, delay tolerant networks, and other next-generation networks such as LTE; examines real-world applications of vehicular communications, broadband wireless technologies, RFID technology, and energy-efficient wireless communications; introduces developments towards the 'Internet of Things'

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from both a communications and a service perspective; discusses the machine-to-machine communication model, important applications of wireless technologies in healthcare, and security issues in state-of-the-art networks. This book presents real-world problems and exploratory research in computational statistics, mathematical modeling, artificial intelligence and software engineering in the context of the intelligent systems. This book constitutes the refereed proceedings of the 3rd Computational Methods in Systems and Software 2019 (CoMeSySo 2019), a groundbreaking online conference that

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provides an international forum for discussing the latest high-quality research results.

An up-to-date guide to an overview of authentication in the Internet of Things (IoT) The Internet of things (IoT) is the network of the countless physical devices that have the possibility to connect and exchange data. Among the various security requirements, authentication to the IoT is the first step to prevent the impact of attackers. IoT Security offers an important guide into the development of the many authentication mechanisms that provide IoT

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authentication at various levels such as user level, device level and network level. The book covers a wide range of topics including an overview of IoT and addresses in detail the security challenges at every layer by considering both the technologies and the architecture used. The authors—*noted experts on the topic*—provide solutions for remediation of compromised security, as well as methods for risk mitigation, and offer suggestions for prevention and improvement. In addition, IoT Security offers a variety of illustrative use cases. This important book: Offers an authoritative reference designed

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for use by all IoT stakeholders Includes information for securing devices at the user, device, and network levels Contains a classification of existing vulnerabilities Written by an international group of experts on the topic Provides a guide to the most current information available on IoT security Written for network operators, cloud operators, IoT device manufacturers, IoT device users, wireless users, IoT standardization organizations, and security solution developers, IoT Security is an essential guide that contains information on security features, including underlying

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networks, architectures, and security requirements.

Big Data, gathered together and re-analysed, can be used to form endless variations of our persons - so-called 'data doubles'. Whilst never a precise portrayal of who we are, they unarguably contain glimpses of details about us that, when deployed into various routines (such as management, policing and advertising) can affect us in many ways. How are we to deal with Big Data? When is it beneficial to us? When is it harmful? How might we regulate it? Offering careful and critical analyses, this timely volume aims to

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broaden well-informed, unprejudiced discourse, focusing on: the tenets of Big Data, the politics of governance and regulation; and Big Data practices, performance and resistance. An interdisciplinary volume, *The Politics of Big Data* will appeal to undergraduate and postgraduate students, as well as postdoctoral and senior researchers interested in fields such as Technology, Politics and Surveillance.

Why the Internet was designed to be the way it is, and how it could be different, now and in the future. How do you design an internet?

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The architecture of the current Internet is the product of basic design decisions made early in its history. What would an internet look like if it were designed, today, from the ground up? In this book, MIT computer scientist David Clark explains how the Internet is actually put together, what requirements it was designed to meet, and why different design decisions would create different internets. He does not take today's Internet as a given but tries to learn from it, and from alternative proposals for what an internet might be, in order to draw some general conclusions about network

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architecture. Clark discusses the history of the Internet, and how a range of potentially conflicting requirements—including longevity, security, availability, economic viability, management, and meeting the needs of society—shaped its character. He addresses both the technical aspects of the Internet and its broader social and economic contexts. He describes basic design approaches and explains, in terms accessible to nonspecialists, how networks are designed to carry out their functions. (An appendix offers a more technical discussion of network functions for readers who want the details.)

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He considers a range of alternative proposals for how to design an internet, examines in detail the key requirements a successful design must meet, and then imagines how to design a future internet from scratch. It's not that we should expect anyone to do this; but, perhaps, by conceiving a better future, we can push toward it.

A call to action to include marginalized, non-western communities in the continuously expanding digital revolution In the digital age, technology has shrunk the physical world into a "global village," where we all seem to be connected as an online community as

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information travels to the farthest reaches of the planet with the click of a mouse. Yet while we think of platforms such as Twitter and Facebook as open and accessible to all, in reality, these are commercial entities developed primarily by and for the Western world. Considering how new technologies increasingly shape labor, economics, and politics, these tools often reinforce the inequalities of globalization, rarely reflecting the perspectives of those at the bottom of the digital divide. This book asks us to re-consider 'whose global village' we are shaping with the digital technology

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revolution today. Sharing stories of collaboration with Native Americans in California and New Mexico, revolutionaries in Egypt, communities in rural India, and others across the world, Ramesh Srinivasan urges us to re-imagine what the Internet, mobile phones, or social media platforms may look like when considered from the perspective of diverse cultures. Such collaborations can pave the way for a people-first approach toward designing and working with new technology worldwide. Whose Global Village seeks to inspire professionals, activists, and scholars alike to think about technology

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in a way that embraces the realities of communities too often relegated to the margins. We can then start to visualize a world where technologies serve diverse communities rather than just the Western consumer.

The scientific monograph Mobility IoT deals with innovative technologies influencing industry and connectivity sectors in the future industrial, urban, social and sustainable development. The mobility and Internet of Things are worldwide phenomena almost in everyday life. It is a challenge in many industries, not only in car

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manufacturing sector but additionally in e-mobility, smart cities, smart factories (Industry 4.0), smart logistics, social mobility, technological innovations, sustainability, multicultural development, Internet of Things sectors, etc., belonging to the topic of SMART Mobility IoT issue. Features practical, tested applications in Internet of Things mobility as presented at Mobility IoT 2018 Includes application domains such as urban mobility, smart factory, social mobility, and sustainability Applicable to researchers, academics, students, and professionals

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Organizational Change, and the Impact of Remote Work

Concepts, Methodologies, Tools, and Applications

The Internet in Everything

A Scalable Approach to Connecting Everything

Proceedings of 3rd Computational Methods in Systems and Software 2019, Vol. 2

Applications, Challenges and Enablers

This book covers the theory, design and applications of computer networks, distributed computing and information systems. Networks of today are going through a rapid evolution, and there are many emerging areas of

information networking and their applications. Heterogeneous networking supported by recent technological advances in low-power wireless communications along with silicon integration of various functionalities such as sensing, communications, intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enable novel, low-cost and high-volume applications. Several of such applications have been difficult to realize because of many interconnections problems. To fulfill their large range of applications, different kinds of networks need to

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collaborate, and wired and next-generation wireless systems should be integrated in order to develop high-performance computing solutions to problems arising from the complexities of these networks. The aim of the book "Advanced Information Networking and Applications" is to provide latest research findings, innovative research results, methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications.

This book is intended to help explore the field of smart sustainable cities in its complexity,

heterogeneity, and breadth, the many faces of a topical subject of major importance for the future that encompasses so much of modern urban life in an increasingly computerized and urbanized world. Indeed, sustainable urban development is currently at the center of debate in light of several ICT visions becoming achievable and deployable computing paradigms, and shaping the way cities will evolve in the future and thus tackle complex challenges. This book integrates computer science, data science, complexity science, sustainability science, system thinking, and urban planning and design. As such, it contains

innovative computer-based and data-analytic research on smart sustainable cities as complex and dynamic systems. It provides applied theoretical contributions fostering a better understanding of such systems and the synergistic relationships between the underlying physical and informational landscapes. It offers contributions pertaining to the ongoing development of computer-based and data science technologies for the processing, analysis, management, modeling, and simulation of big and context data and the associated applicability to urban systems that will advance different aspects of sustainability.

This book seeks to explicitly bring together the smart city and sustainable city endeavors, and to focus on big data analytics and context-aware computing specifically. In doing so, it amalgamates the design concepts and planning principles of sustainable urban forms with the novel applications of ICT of ubiquitous computing to primarily advance sustainability. Its strength lies in combining big data and context-aware technologies and their novel applications for the sheer purpose of harnessing and leveraging the disruptive and synergetic effects of ICT on forms of city planning that are required for future forms of sustainable

development. This is because the effects of such technologies reinforce one another as to their efforts for transforming urban life in a sustainable way by integrating data-centric and context-aware solutions for enhancing urban systems and facilitating coordination among urban domains. This timely and comprehensive book is aimed at a wide audience across science, academia industry, and policymaking. It provides the necessary material to inform relevant research communities of the state-of-the-art research and the latest development in the area of smart sustainable urban development, as well as a valuable

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reference for planners, designers, strategists, and ICT experts who are working towards the development and implementation of smart sustainable cities based on big data analytics and context-aware computing.

A compelling argument that the Internet of things threatens human rights and security "Sobering and important."--Financial Times, "Best Books of 2020: Technology" The Internet has leapt from human-facing display screens into the material objects all around us. In this so-called Internet of things--connecting everything from cars to cardiac monitors to home appliances--there is no longer a

meaningful distinction between physical and virtual worlds. Everything is connected. The social and economic benefits are tremendous, but there is a downside: an outage in cyberspace can result not only in loss of communication but also potentially in loss of life. Control of this infrastructure has become a proxy for political power, since countries can easily reach across borders to disrupt real-world systems. Laura DeNardis argues that the diffusion of the Internet into the physical world radically escalates governance concerns around privacy, discrimination, human safety, democracy, and national security, and she offers new cyber-

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policy solutions. In her discussion, she makes visible the sinews of power already embedded in our technology and explores how hidden technical governance arrangements will become the constitution of our future.

Information and communication technologies play an essential role in the effectiveness and efficiency of smart city processes. Recognizing the role of process analysis in energy usage and how it can be enhanced is essential to improving city sustainability. Smart Grid Analytics for Sustainability and Urbanization provides emerging research on the development of information technology and communication

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systems in smart cities and smart grids. While highlighting topics such as process mining, innovation management, and sustainability optimization, this publication explores technology development and the mobilization of different environments in smart cities. This book is an important resource for graduate students, researchers, academics, engineers, and government officials seeking current research on how process analysis in energy usage is manifested and how it can be enhanced.

The emergence of financial technology (FinTech)-related products is causing major

disruptions in financial services that enable financial solutions and innovative business models resulting in the fusion of finance and smart mobile technology. As ASEAN is undergoing a paradigm shift from government-to-government (G2G) to community-to-community (C2C) relationships with the emphasis on integration and collaboration, the adoption of FinTech and its possible future directions needs to be studied further. Financial Technology and Disruptive Innovation in ASEAN provides an assortment of innovative research that explores the recent FinTech initiative in ASEAN with respect to its process, strategies,

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challenges, and outcomes and highlights new business models, products, and services that affect financial markets and institutions and the provision of financial services. While highlighting topics including blockchain technology, cloud computing, and mobile banking, this book is ideally designed for business executives, managers, entrepreneurs, financial and banking practitioners, policymakers, academicians, students, professionals, and researchers.

This book constitutes the refereed proceedings of the 7th International Conference on Smart City and Informatization, iSCI 2019, held in

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Guangzhou, China, in November 2019. The volume presents 52 full papers, which were carefully reviewed and selected from 139 submissions. The papers are organized in topical sections on Internet of Things (IoT) and smart sensing; urban computing and big data; smart society informatization technologies; cloud/edge/fog computing for smart city; applications for smart city informatization; assistive engineering and information technology; cyberspace security; blockchain and applications.

[Successful IoT Device/Edge and Platform Security Deployment](#)

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Rethinking Disability

IoT Security

Handbook of Research on Theory and Practice of Global Islamic Finance

Financial Technology and Disruptive Innovation in ASEAN

Building the Internet of Things

Smart Grid Analytics for Sustainability and Urbanization

Whose Global Village?

Internet of Things and Inter-cooperative Computational Technologies for Collective Intelligence

The Assemblage of Contexts, Subjects, and

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Politics

14th IFIP WG 9.2, 9.6/11.7, 11.6/SIG 9.2.2

International Summer School, Windisch,

Switzerland, August 19-23, 2019, Revised

Selected Papers

Cognitive Hyperconnected Digital

Transformation