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Applications, Challenges, and Opportunities of Blockchain Technology in Banking and Insurance **Enabling Blockchain Technology for Secure Networking and Communications** *Artificial Intelligence as a Disruptive Technology* **Power to the People** **The Digitalisation of Science, Technology and Innovation** **Key Developments and Policies** **Algorithmic Regulation** **The Accelerating Transport Innovation Revolution** *The Fourth Industrial Revolution* **Privacy Concerns Surrounding Personal Information Sharing on Health and Fitness** **Mobile Apps** *Urbanizing the Regional Sector to Strengthen Economy and Business to Recover from Recession* **Decentralised Internet of Things** *Blockchain Technology Explained* **Fintech in Islamic Finance** *Handbook of Innovation & Appropriate Technologies for International Development* **Emerging Technologies in Computing** **The Emerald Handbook of ICT in Tourism and Hospitality** **Convergence of Blockchain Technology and E-Business** *Emerging Technologies for Nurses* *The Future European Energy System* **Technological Innovation and International Competitiveness for Business Growth** *Blockchain-Based Smart Grids* **The Regulation and Policy of Latin American Energy Transitions** **Blockchain Technology Applications in Businesses and Organizations** **High-growth Women's Entrepreneurship** **Automated Technology for Verification and Analysis** *Monsters, Monstrosities, and the Monstrous in Culture and Society* **Applications of Accounting Information Systems** *Blockchain Technology and Computational Excellence for Society 5.0* **Soil and Groundwater Remediation Technologies** *Capitalism, Power and Innovation* *Advanced Analytics in Mining Engineering* *Technology Law and Artificial Intelligence* **Transformational University Leadership** **Learning in a Digital World** *Introduction to Internet of Things in Management Science and Operations Research* **The Global Politics of Artificial Intelligence** *Current Developments in Biotechnology and Bioengineering* *Predictive Policing in Germany. Opportunities and challenges of data-analytical forecasting technology in order to prevent crime* *Legal-Economic Institutions, Entrepreneurship, and Management*

Algorithmic Regulation May 26 2022 As the power and sophistication of 'big data' and predictive analytics has continued to expand, so too has policy and public concern about the use of algorithms in contemporary life. This is hardly surprising given our increasing reliance on algorithms in daily life, touching policy sectors from healthcare, transport, finance, consumer retail, manufacturing education, and employment through to public service provision and the operation of the criminal justice system. This has prompted concerns about the need and importance of holding algorithmic power to account, yet it is far from clear that existing legal and other oversight mechanisms are up to the task. This collection of essays, edited by two leading regulatory governance scholars, offers a critical exploration of 'algorithmic regulation', understood both as a means for co-ordinating and regulating social action and decision-making, as well as the need for institutional mechanisms through which the power of algorithms and algorithmic systems might themselves be regulated. It offers a unique perspective that is likely to become a significant reference point for the ever-growing debates about the power of algorithms in daily life in the worlds of research, policy and practice. The range of contributors are drawn from a broad range of disciplinary perspectives including law, public administration, applied philosophy, data science and artificial intelligence. Taken together,

they highlight the rise of algorithmic power, the potential benefits and risks associated with this power, the way in which Sheila Jasanoff's long-standing claim that 'technology is politics' has been thrown into sharp relief by the speed and scale at which algorithmic systems are proliferating, and the urgent need for wider public debate and engagement of their underlying values and value trade-offs, the way in which they affect individual and collective decision-making and action, and effective and legitimate mechanisms by and through which algorithmic power is held to account.

The Regulation and Policy of Latin American Energy Transitions Jan 10 2021 The Regulation and Policy of Latin American Energy Transitions examines the ongoing revolution within the energy landscape of Latin America. This book includes real-world examples from across the continent to demonstrate the current landscape of energy policy in Latin America. It focuses on distributed energy resources, including distributed generation, energy efficiency and microgrids, but also addresses the role of less common energy sources, such as geothermal and biogas, as well as discusses the changing role of energy actors, where consumers become prosumers or prosumagers, and utilities become service providers. The legal frameworks that are still hampering the transformation of the energy landscape are explored, together with an analysis of the economic, planning-related and social aspects of energy transitions, which can help address the issue of how inequalities are affecting and being affected by energy transitions. The book is suitable for policy makers, lawyers, economists and social science professionals working with energy policy, as well as researchers and industry professionals in the field. It is an ideal source for anyone involved in energy policy and regulation across Latin America. Reviews key legal and policy features defining success and failure within the diverse Latin American energy transitions Provides clear descriptions and comparisons of current and potential future policy frameworks in Latin America across differing social, economic, geo-political and policy contexts Analyzes the potential role of new technologies and practices in developing the region's energy economy Poses key regulatory challenges and possible means to finance the envisioned transitions

Emerging Technologies for Nurses May 14 2021 Learn and innovate with the latest technologies in nursing and healthcare! The first text of its kind in nursing, this book provides up-to-date information on innovative, smart technologies that nurses can use in clinical and nonclinical settings to keep up with the changing face of healthcare. This compelling guide will provide you with information about exciting areas of technology that have great potential to improve patient care. Subjects include big data, artificial intelligence, virtual and augmented realities, connected technologies, and precision health. There is also discussion of the shift of healthcare delivery into the community, with an outlook on improving outcomes and enhancing practice. Each chapter focuses on developing competency in current and future real-world applications of emerging technologies. Early chapters describe how to utilize new tools, processes, models, and products to serve the quadruple aim of better managing populations, decreasing costs, and enhancing both the patient's and the clinician's experience. The culture of innovation coincides with the ever-changing politics of healthcare in later chapters, which then evolves into the entrepreneurial opportunities for nurses. This text is an essential introduction for all practicing nurses, nurse leaders, and nurses teaching health information technology or informatics courses. Key Features: Written by nurses for nurses The latest information on emerging health information technology and associated nursing implications Compelling cases show the dramatic effect of innovations on value-based care Learn how applying novel technologies can improve patient care Qualified instructors have access to supplementary materials, including PowerPoint slides and an Instructor's Manual

Automated Technology for Verification and Analysis Oct 07 2020 This book constitutes the refereed proceedings of the 16th International Symposium on Automated Technology for Verification and Analysis, ATVA 2018, held in Los Angeles, CA, USA in October 2018. The 27 full papers presented together with 5 short papers and 3 invited talks were carefully reviewed and selected from 82 submissions. The symposium is dedicated to the promotion of research on theoretical and practical aspects of automated analysis, verification and synthesis by providing a forum for interaction

between the regional and the international research communities and industry in the field.

Monsters, Monstrosities, and the Monstrous in Culture and Society Sep 05 2020 Existing research on monsters acknowledges the deep impact monsters have especially on Politics, Gender, Life Sciences, Aesthetics and Philosophy. From Sigmund Freud's essay 'The Uncanny' to Scott Poole's 'Monsters in America', previous studies offer detailed insights about uncanny and immoral monsters. However, our anthology wants to overcome these restrictions by bringing together multidisciplinary authors with very different approaches to monsters and setting up variety and increasing diversification of thought as 'guiding patterns'. Existing research hints that monsters are embedded in social and scientific exclusionary relationships but very seldom copes with them in detail. Erving Goffman's doesn't explicitly talk about monsters in his book 'Stigma', but his study is an exceptional case which shows that monsters are stigmatized by society because of their deviations from norms, but they can form groups with fellow monsters and develop techniques for handling their stigma. Our book is to be understood as a complement and a 'further development' of previous studies: The essays of our anthology pay attention to mechanisms of inequality and exclusion concerning specific historical and present monsters, based on their research materials within their specific frameworks, in order to 'create' engaging, constructive, critical and diverse approaches to monsters, even utopian visions of a future of societies shared by monsters. Our book proposes the usual view, that humans look in a horrified way at monsters, but adds that monsters can look in a critical and even likewise frightened way at the very societies which stigmatize them.

High-growth Women's Entrepreneurship Nov 07 2020 Women's entrepreneurship is vital for economic and social development, yet female entrepreneurs worldwide are consistently found to have weaker sales and employment growth, fewer jobs, and lower profitability. This book was written to address this reality, and focuses on the high-growth potential of women entrepreneurs.

Decentralised Internet of Things Dec 21 2021 This book presents practical as well as conceptual insights into the latest trends, tools, techniques and methodologies of blockchains for the Internet of Things. The decentralised Internet of Things (IoT) not only reduces infrastructure costs, but also provides a standardised peer-to-peer communication model for billions of transactions. However, there are significant security challenges associated with peer-to-peer communication. The decentralised concept of blockchain technology ensures transparent interactions between different parties, which are more secure and reliable thanks to distributed ledger and proof-of-work consensus algorithms. Blockchains allow trustless, peer-to-peer communication and have already proven their worth in the world of financial services. The blockchain can be implanted in IoT systems to deal with the issues of scale, trustworthiness and decentralisation, allowing billions of devices to share the same network without the need for additional resources. This book discusses the latest tools and methodology and concepts in the decentralised Internet of Things. Each chapter presents an in-depth investigation of the potential of blockchains in the Internet of Things, addressing the state-of-the-art in and future perspectives of the decentralised Internet of Things. Further, industry experts, researchers and academicians share their ideas and experiences relating to frontier technologies, breakthrough and innovative solutions and applications.

Handbook of Innovation & Appropriate Technologies for International Development Sep 17 2021 This timely Handbook provides a conceptual discussion and an empirical review of new disruptive forms of innovation producing appropriate technologies, which address both the needs of low-income populations worldwide, and provides alternative solutions for sustainable development.

Advanced Analytics in Mining Engineering Mar 31 2020 In this book, Dr. Soofastaei and his colleagues reveal how all mining managers can effectively deploy advanced analytics in their day-to-day operations- one business decision at a time. Most mining companies have a massive amount of data at their disposal. However, they cannot use the stored data in any meaningful way. The powerful new business tool-advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results. From statistical

analysis to machine learning and artificial intelligence, the authors show how many analytical tools can improve decisions about everything in the mine value chain, from exploration to marketing. Combining the science of advanced analytics with the mining industrial business solutions, introduce the “Advanced Analytics in Mining Engineering Book” as a practical road map and tools for unleashing the potential buried in your company’s data. The book is aimed at providing mining executives, managers, and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value, cost, and risk of potential analytical solutions. In addition, the book will provide the next generation of miners - undergraduate and graduate IT and mining engineering students - with an understanding of data analytics applied to the mining industry. By providing a book with chapters structured in line with the mining value chain, we will provide a clear, enterprise-level view of where and how advanced data analytics can best be applied. This book highlights the potential to interconnect activities in the mining enterprise better. Furthermore, the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain - in line with the emerging vision of creating a digital mine with much-enhanced capabilities for modeling, simulation, and the use of digital twins - in line with leading “digital” industries.

Emerging Technologies in Computing Aug 17 2021 Emerging Technologies in Computing: Theory, Practice, and Advances reviews the past, current, and future needs of technologies in the computer science field while it also discusses the emerging importance of appropriate practices, advances, and their impact. It outlines emerging technologies and their principles, challenges, and applications as well as issues involved in the digital age. With the rapid development of technologies, it becomes increasingly important for us to remain up to date on new and emerging technologies. It draws a clear illustration for all those who have a strong interest in emerging computing technologies and their impacts on society. Features: Includes high-quality research work by academicians and industrial experts in the field of computing Offers case studies related to Artificial Intelligence, Blockchain, Internet of Things, Multimedia Big Data, Blockchain, Augmented Reality, Data Science, Robotics, Cybersecurity, 3D Printing, Voice Assistants and Chatbots, and Future Communication Networks Serves as a valuable reference guide for anyone seeking knowledge about where future computing is heading

Technology Feb 29 2020 In modern life, technology is everywhere. Yet as a concept, technology is a mess. In popular discourse, technology is little more than the latest digital innovations. Scholars do little better, offering up competing definitions that include everything from steelmaking to singing. In *Technology: Critical History of a Concept*, Eric Schatzberg explains why technology is so difficult to define by examining its three thousand year history, one shaped by persistent tensions between scholars and technical practitioners. Since the time of the ancient Greeks, scholars have tended to hold technicians in low esteem, defining technical practices as mere means toward ends defined by others. Technicians, in contrast, have repeatedly pushed back against this characterization, insisting on the dignity, creativity, and cultural worth of their work. The tension between scholars and technicians continued from Aristotle through Francis Bacon and into the nineteenth century. It was only in the twentieth century that modern meanings of technology arose: technology as the industrial arts, technology as applied science, and technology as technique. Schatzberg traces these three meanings to the present day, when discourse about technology has become pervasive, but confusion among the three principal meanings of technology remains common. He shows that only through a humanistic concept of technology can we understand the complex human choices embedded in our modern world.

Current Developments in Biotechnology and Bioengineering Aug 24 2019 Current Developments in Biotechnology and Bioengineering: Resource Recovery from Wastes includes the latest and innovative research and technological developments in the biotechnology and bioengineering

pertaining to various resource(s) recovery from wastes. The contents are organized into two broader sections covering resource recovery from industrial wastewater and resource recovery from solid wastes. Sections cover energy, bioproducts, nutrients, municipal food wastes, electronic wastes, agricultural waste and others. The state-of-the-art situation, potential advantages and limitations are also provided, along with strategies to overcome limitations. This book is a useful guide into research demands in solid and liquid waste treatment and management for environmental/economic sustainability. Provides state-of-art information and applications on microbiological and biotechnological interventions for resource recovery Covers municipal food wastes, electronic wastes and agricultural wastes Reviews current information relating to bioremediation Contains recent information, clearly illustrated with tables, figures and pictures Outlines different technological and biological aspects of resource recovery from industrial waste and effluents

Soil and Groundwater Remediation Technologies Jun 02 2020 This book offers various soil and water treatment technologies due to increasing global soil and water pollution. In many countries, the management of contaminated land has matured, and it is developing in many others. Topics covered include chemical and ecological risk assessment of contaminated sites; phytomanagement of contaminants; arsenic removal; selection and technology diffusion; technologies and socio-environmental management; post-remediation long-term management; soil and groundwater laws and regulations; and trace element regulation limits in soil. Future prospects of soil and groundwater remediation are critically discussed in this book. Hence, readers will learn to understand the future prospects of soil and groundwater contaminants and remediation measures. Key Features: Discusses conventional and novel aspects of soil and groundwater remediation technologies Includes new monitoring/sensing technologies for soil and groundwater pollution Features a case study of remediation of contaminated sites in the old, industrial, Ruhr area in Germany Highlights soil washing, soil flushing, and stabilization/solidification Presents information on emerging contaminants that exhibit new challenges This book is designed for undergraduate and graduate courses and can be used as a handbook for researchers, policy makers, and local governmental institutes. Soil and Groundwater Remediation Technologies: A Practical Guide is written by a team of leading global experts in the field.

Convergence of Blockchain Technology and E-Business Jun 14 2021 The purpose of this edited book is to provide the relevant technologies and case studies in a concise format that will simplify and streamline the processing of blockchain. The goal is for the contents of this book to change the way business transformations are conducting in economic and social systems. The book examines blockchain technology, the transaction attributes, and its footprint in various fields. It offers fundamentals and terminologies used in blockchain, architecture, and various consensus mechanisms that can be deployed in areas such as healthcare, smart cities, and supply chain management. The book provides a widespread knowledge into the deployment of security countermeasures that can be implemented for a blockchain network and enables the reader to consider the management of business processes and the implementation process in detail. The book highlights the challenges and provides various e-business case studies of security countermeasures. The book serves researchers and businesses by providing a thorough understanding of the transformation process using blockchain technology.

The Emerald Handbook of ICT in Tourism and Hospitality Jul 16 2021 The Emerald Handbook of ICT in Tourism and Hospitality incorporates key research findings, in-depth case studies and discussion of the future implications stemming from technologies changes and developments across a number of core themes.

The Digitalisation of Science, Technology and Innovation Key Developments and Policies Jun 26 2022 This report examines digitalisation's effects on science, technology and innovation and the associated consequences for policy. In varied and far-reaching ways, digital technologies are changing how scientists work, collaborate and publish.

Capitalism, Power and Innovation May 02 2020 In contemporary global capitalism, the most powerful corporations are innovation or intellectual monopolies. The book's unique perspective focuses on how private ownership and control of knowledge and data have become a major source of rent and power. The author explains how at the one pole, these corporations concentrate income, property and power in the United States, China, and in a handful of intellectual monopolies, particularly from digital and pharmaceutical industries, while at the other pole developing countries are left further behind. The book includes detailed empirical mappings of how intellectual monopolies develop and transform knowledge from universities and open-source collaborations into intangible assets. The result is a strategy that combines undermining the commons through privatization with harvesting from the same commons. The book ends with provoking reflections to tilt the scale against intellectual monopoly capitalism and arguing that desired changes require democratic mobilization of workers and citizens at large. This book represents one of the first attempts to capture the contours of an emerging new era where old perspectives lead us astray, and the old policy toolbox is hopelessly inadequate. This is true for the idea that the best, or only, way to promote innovation is to transform knowledge into private property. It is also true for anti-trust policies focusing exclusively on consumer prices. The formation of global infrastructures that lead to natural monopolies calls for public rather than private ownership. Scholars and professionals from the social sciences and humanities (in particular economics, sociology, political science, geography, educational science and science and technology studies) will enjoy a clear and all-embracing depiction of innovation dynamics in contemporary capitalism, with a particular focus on asymmetries between actors, regions and topics. In fact, its topical issue broadens the book's scope to those curious about how innovation networks shape our world.

Legal-Economic Institutions, Entrepreneurship, and Management Jun 22 2019 The study of dynamics of institutional change in emerging markets are subjects of great interest in contemporary political economy. The dynamics and quality of institutional change can have significant impacts on the long-run performance of economies, economic growth and development of nations, and play a fundamental role in societies. It provides a comprehensive understanding of legal-economic institutions, and sheds light on the way to global peace by producing a better understanding of the dynamics of historical change. Topics range from institutional uncertainty, hybrid market order and labor market institutions, to good governance of institutions and WTO rules as trade institutions, as well as entrepreneurship and institutional change in emerging markets, and the role of modern technologies. This edited volume emphasizes legal-economic institutions, and the role of management and entrepreneurship on dynamics, trends, and implications of institutional change in emerging markets. Presenting research articles by eminent scholars and experts engaged in education and research, who address and discuss the most recent issues in the field, they reveal new insights into the dynamics of institutional change for researchers interested in development of new theories and comparative studies, especially in the era of emerging markets. The book is appealing to a wide range of global audience, can serve as a useful reference work in education and research, offers innovative and productive discussions, and can satisfy scholarly and intellectual interests, regarding institutional development and a broad spectrum of its interactions with functioning of markets and economies.

Transformational University Leadership Dec 29 2019 Focusing on gender and culture, the authors explore the leadership tactics and strategies university presidents use to uplift the University from a regional campus to a tier 1 research powerhouse. Offering strategies, anecdotes, and transferable methods for university leaders to elevate their institution and thrive in the academic market.

Applications, Challenges, and Opportunities of Blockchain Technology in Banking and Insurance Oct 31 2022 The surge in technological transformation affects all business model phases over many industries. Emerging technologies provide new avenues for industries to increase their competitive advantage and enhance economic progression. Blockchain technology's ability to build an open and trustworthy network model seems to

promote shared IT-based networks in banking, insurance, and other similar industries. The adoption of blockchain in the banking and insurance industry is developing rapidly. Applications, Challenges, and Opportunities of Blockchain Technology in Banking and Insurance explores how blockchain technologies optimize and integrate the transactions and operations in association with access to information and reduction in communication costs and negligible data transfer errors. It includes studies on various banking and insurance industries intending to use blockchain technology to make transactions convenient, simple, and safe. Covering topics such as cryptocurrency, digital transformation, and small and medium-sized enterprises, this premier reference source is an essential resource for policymakers, government officials, students and educators of higher education, libraries, banking managers, insurance professionals, researchers, and academicians.

Predictive Policing in Germany. Opportunities and challenges of data-analytical forecasting technology in order to prevent crime Jul 24 2019 Master's Thesis from the year 2019 in the subject Computer Science - Theory, grade: A*, Management Center Innsbruck, language: English, abstract: This Master Thesis introduces theoretical fundamentals of Predictive Policing tools used in German police institutions such as Hot-Spot techniques, Near-Repeat approaches, Risk-terrain Analysis and Concentric-Zone Model. In times of Big Data, police work has also changed and the usage of forecasting technologies in order to prevent crime does not only vary state-wide in definitions but also in its application. Therefore, objectives and appliances are described in general. Additionally, a chronological transformation is established in order to compare lineages in Germany with those in the USA. Since Predictive Policing polarises, the research question deals with potential opportunities and challenges police institutions and the society have to deal with, when it comes to leveraging data-analytical forecasting technologies in order to prevent crime. The motivation for writing the Master Thesis about the present topic stems from the fact that it is highly current and has not yet been thoroughly studied. Preventing crime and thus ensuring a safe environment is an important field of research in our society and should be guaranteed with problem-oriented policing. Since there are varying considerations and application measures of PP according to different country side frameworks, the Thesis provides an overview about technical functioning and practical appliance within Germany. Therefore, content provides on the one hand added value for lecturers and students in the field of Public Security Management and related studies or police officers in the upper grade of the civil service. On the other hand, it serves to educate citizens about how far the technologies have progressed in this area and to what extent this will influence the lives of citizens in the future. Many police departments worldwide test software-based forecasting technologies according to their relevance in practice. Forecasting systems work with data sets about already registered crime activities. Those datasets are then complemented with socio-spatial, calendar and meteorological data. Since the amount of collected and analyzed data increases day by day, the question arises as to what extent Machine Learning and Artificial Intelligence will influence the human advice origin to predict and prevent crime.

Power to the People Jul 28 2022 Never have so many possessed the means to be so lethal. The diffusion of modern technology (robotics, cyber weapons, 3-D printing, autonomous systems, and artificial intelligence) to ordinary people has given them access to weapons of mass violence previously monopolized by the state. In recent years, states have attempted to stem the flow of such weapons to individuals and non-state groups, but their efforts are failing. As Audrey Kurth Cronin explains in *Power to the People*, what we are seeing now is an exacerbation of an age-old trend. Over the centuries, the most surprising developments in warfare have occurred because of advances in technologies combined with changes in who can use them. Indeed, accessible innovations in destructive force have long driven new patterns of political violence. When Nobel invented dynamite and Kalashnikov designed the AK-47, each inadvertently spurred terrorist and insurgent movements that killed millions and upended the international system. That history illuminates our own situation, in which emerging technologies are altering society and redistributing power. The twenty-first century "sharing economy" has already disrupted every institution, including the armed forces. New "open" technologies are transforming access to

the means of violence. Just as importantly, higher-order functions that previously had been exclusively under state military control - mass mobilization, force projection, and systems integration - are being harnessed by non-state actors. Cronin closes by focusing on how to respond so that we both preserve the benefits of emerging technologies yet reduce the risks. Power, in the form of lethal technology, is flowing to the people, but the same technologies that empower can imperil global security - unless we act strategically.

Urbanizing the Regional Sector to Strengthen Economy and Business to Recover from Recession Jan 22 2022 This pandemic does not only affect health aspects but also economic aspects. The world today faces a recession resulting from the covid-19 pandemic. Indonesia's economy continues to lead to a recovery, although not very significant. The current government continues to make various recovery efforts. One of the flagship programs includes encouraging and strengthening support for social protection and increasing the purchasing power of households as well as various business sectors, including small and medium-sized micro enterprises (MSMEs). This condition urges the world to create new breakthroughs to rise from this adversity. Academicians and practitioners need to work together to find the necessary solutions and developments. Surely, it will contribute to solve the problems in society by interdisciplinary cooperation. This collaboration will create innovations in science and technology especially business and economic field. This book includes in-depth discussions between academicians and practitioners, especially on how to strengthen the regional sectors to be the strong pillars of the country's economy. Interestingly, various methods are used to observe the problems, to explore the solutions, and to develop the innovation. This book will be of interest to students, scholars, and practitioners of social empowerment, governance, and other related stakeholders. The Open Access version of this book, available at <http://www.taylorfrancis.com>, has been made available under a Creative Commons [Attribution-Non Commercial-No Derivatives (CC-BY-NC-ND)] 4.0 license. Funded by State University of Malang.

Fintech in Islamic Finance Oct 19 2021 Featuring high-level analysis of Islamic law, this book examines fintech in Islamic finance from both theoretical and empirical perspectives. Whilst building on existing approaches, it also discusses the current application of fintech in promoting financial inclusion through innovative solutions in Muslim-majority countries, identifying future directions for policy-makers. With original chapters written by prominent academics, senior lawyers and practitioners in the global Islamic finance industry, this book serves as the first standalone pioneering reference work on fintech in Islamic finance. It also, for the first time, examines the position of Islamic law on cryptocurrencies, such as bitcoin. Besides the conceptual analysis of the Shari'ah and legal aspects of fintech in Islamic finance, this book provides relevant case studies showing current and potential developments in the application of fintech in various sectors ranging from crowdfunding and smart contracts, to Online Dispute Resolution, Investment Account Platform and identity verification in the KYC process. Setting the agenda for researchers in the field, Fintech in Islamic Finance will be useful to students and scholars of Islamic finance and financial technology.

Technological Innovation and International Competitiveness for Business Growth Mar 12 2021 This book explores how companies combine technological innovation and competitive actions that create new opportunities for business growth in the international market. The complexity of designing today's technology platforms requires profound knowledge in multiple areas. Technology development and commercialization as an ongoing competitive process involves enabling and inhibiting mechanisms, which govern the speed and acceleration of technological innovation. To compete more effectively, potential competitors are using co-competition and pooling their resources for shared gain in areas where they do not compete directly. Thus, a thorough examination of the current paradigms, theories, and frameworks is needed to increase our understanding of the technology-innovation-competitiveness linkages of business growth. This book brings together recent developments and methodological contributions within technological innovation, international competitiveness, and business growth that bridge the existing gaps and simultaneously advances the debate on this research topic.

Blockchain Technology and Computational Excellence for Society 5.0 Jul 04 2020 Blockchain is the most disruptive technology to emerge in the last decade. The evolution of cryptocurrencies has carried with it a revolution in digital economics that has catapulted the application of blockchain technology to a new level across a variety of industries, including banking, security, networking, and more. Blockchain Technology and Computational Excellence for Society 5.0 closes the gap in existing literature by presenting a selection of chapters that not only shape the research domain, but also present supportive real-life problems and pragmatic solutions. This book presents a variety of highly relevant themes, concepts, and applications in blockchain, discussing topics such as cyber security, digital currencies, and intelligent networks, fueling awareness and interest. With its insight into various platforms, techniques, and tools, this book serves as a valuable resource for academicians, researchers, research scholars, postgraduates, professors, computer scientists, and technology enthusiasts.

The Accelerating Transport Innovation Revolution Apr 24 2022 The Accelerating Transport Innovation Revolution: A Global, Case Study-based Assessment of Current Experience, Cross-sectorial Effects and Socioeconomic Transformations, offers a comprehensive view of current state-of-the-art and practices around the world to create innovation on a revolutionary scale and connect research to commercial exploitation of its results. It offers a fascinating new model of the innovation process based on theories of biological ecosystems, general systems theory and basins of attraction (represented through space-time graphs well known in mathematics). Furthermore, it considers - through a number of dedicated chapters - key issues and elements of innovation ecosystems, such as: Causal Factors and system constraints affecting the development and sustainability of innovation ecosystems (Chapter 4); Review of innovation organization and governance in key countries and regions (Chapter 5); the role of technological "Spillovers" (Chapter 6); Collection and use of data for innovation monitoring and benchmarking (Chapter 7); Intellectual Property protection between competing ecosystems (Chapter 8); Economics of innovation (Chapter 9); Public and private sector involvement in Transport innovation creation (Chapter 10); the role of the individual entrepreneur - innovator in energizing change (Chapter 11). Finally, in Chapter 12, there is a thorough summary of key findings. This book uses a paradigmatic approach to augment the innovation ecosystem model of innovation that integrates beliefs and learning into the innovation ecosystems model. It therefore includes ten case studies from the U.S., Europe and Asia, detailing how innovation is created across continents and different ecosystems and what are the critical lessons to be learned. It does this, effectively, at five different levels of analysis i.e. the individual innovator / entrepreneur level, the organization level (government agency or company), the regional ecosystem level, the nation-state level and the global - systemic or international level. Each level of analysis, reveals unique features of the innovation landscape and the ten case studies allow the reader to assess when and where specific "enablers" are facilitating innovation especially on a revolutionary scale. The need for the book came from the realization that despite the billions of dollars spent on various research programs over the past 20 years (especially in the public sector), there have been few clear and tangible efforts directed at exploring how innovation production increasingly occurs and the critical factors necessary to sustain large-scale, revolutionary change as the future unfolds. Thus, a primary theme of the book is that understanding how research results translate into market innovation and implementation, especially understanding the nature of revolutionary innovation, is as important as the creation of innovations themselves. While the focus of the book is on Transportation, the concepts and recommendations presented apply to other fields too. Formulates and presents a workable and comprehensive new model of innovation Defines and analyzes many concepts and notions related to innovation, research and market implementation Examines the critical factors affecting innovation production and successful commercial implementation of research results Examines organizational models of coordination, governance, data collection, process analysis and use of intellectual property tools Includes recent, well-researched and documented case studies of successful innovation ecosystems across the world mainly - but not only - in the Transport field

The Fourth Industrial Revolution Mar 24 2022 World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine “smart factories” in which global systems of manufacturing are coordinated virtually, or implantable mobile phones made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Learning in a Digital World Nov 27 2019 This book aims at guiding the educators from a variety of available technologies to support learning and teaching by discussing the learning benefits and the challenges that interactive technology imposes. This guidance is based on practical experiences gathered through developing and integrating them into varied educational settings. It compiles experiences gained with various interactive technologies, offering a comprehensive perspective on the use and potential value of interactive technologies to support learning and teaching. Taken together, the chapters provide a broader view that does not focus exclusively on the uses of technology in educational settings, but also on the impact and ability of technology to improve the learning and teaching processes. The book addresses the needs of researchers, educators and other stakeholders in the area of education interested in learning how interactive technologies can be used to overcome key educational challenges.

Applications of Accounting Information Systems Aug 05 2020 The revolutionary effects of using accounting information systems by displacing manual information systems in the private and public sectors cannot be overstated. The benefits of this substitution of set of processes include increased mathematical accuracy, predefined fields and coding tasks, and de-emphasis of manual clerical labor in favor of labor adept in data processing. Reporting can be significantly automated, facilitating managerial power and control at a distance and the proliferation of global enterprises. The potential detriments are rarely accurately, completely, and timely addressed as information system vendors, management consultants, and corporate procurement teams race toward the popularly conceived state of the art. Systems are ballyhooed as continually improving in processing speed, functionality, and capacity. Users of these automated systems may not consider big picture effects, and they may not intelligently consider the conduct risks to their own enterprises by concentrating such global reach and influence at high levels of senior management without dedicating adequate resources to verifying the accuracy, completeness, and timeliness of the information systems. This book considers these risks.

Law and Artificial Intelligence Jan 28 2020 This book provides an in-depth overview of what is currently happening in the field of Law and Artificial Intelligence (AI). From deep fakes and disinformation to killer robots, surgical robots, and AI lawmaking, the many and varied contributors to this volume discuss how AI could and should be regulated in the areas of public law, including constitutional law, human rights law, criminal law, and tax law, as well as areas of private law, including liability law, competition law, and consumer law. Aimed at an audience without a background in

technology, this book covers how AI changes these areas of law as well as legal practice itself. This scholarship should prove of value to academics in several disciplines (e.g., law, ethics, sociology, politics, and public administration) and those who may find themselves confronted with AI in the course of their work, particularly people working within the legal domain (e.g., lawyers, judges, law enforcement officers, public prosecutors, lawmakers, and policy advisors). Bart Custers is Professor of Law and Data Science at eLaw - Center for Law and Digital Technologies at Leiden University in the Netherlands. Eduard Fosch-Villaronga is Assistant Professor at eLaw - Center for Law and Digital Technologies at Leiden University in the Netherlands.

Privacy Concerns Surrounding Personal Information Sharing on Health and Fitness Mobile Apps Feb 20 2022 Health and fitness apps collect various personal information including name, email address, age, height, weight, and in some cases, detailed health information. When using these apps, many users trustfully log everything from diet to sleep patterns. However, by sharing such personal information, end-users may make themselves targets to misuse of this information by unknown third parties, such as insurance companies. Despite the important role of informed consent in the creation of health and fitness applications, the intersection of ethics and information sharing is understudied and is an often-ignored topic during the creation of mobile applications. Privacy Concerns Surrounding Personal Information Sharing on Health and Fitness Mobile Apps is a key reference source that provides research on the dangers of sharing personal information on health and wellness apps, as well as how such information can be used by employers, insurance companies, advertisers, and other third parties. While highlighting topics such as data ethics, privacy management, and information sharing, this publication explores the intersection of ethics and privacy using various quantitative, qualitative, and critical analytic approaches. It is ideally designed for policymakers, software developers, mobile app designers, legal specialists, privacy analysts, data scientists, researchers, academicians, and upper-level students.

Blockchain Technology Explained Nov 19 2021 Are you READY to dive into the world of the blockchain technology & cryptocurrencies?! What is blockchain? How does blockchain actually work? How does blockchain technology affect our future and what can it be used for? The Kindle Edition is listed at \$2.99 for a LIMITED time only! Purchase now and save 67% on your order! PAPERBACK DEAL - SAVE 72% NOW! Paperback REGULAR PRICE: \$49.99 ONLY TODAY: \$13.38 BONUS: Buy The Paperback Edition And Get FREE Access To The Kindle Edition Step up your game and take your blockchain and cryptocurrency knowledge to the next level! The blockchain is an undeniably incredible invention - created by Satoshi Nakamoto. But since then, it has evolved into something greater, and the main question every single person is asking is: What is Blockchain? Blockchain is the world's leading software platform for digital assets. Digital assets, like bitcoin and ethereum, allow users to transact directly without any third-party intermediary and was built to radically improve the financial system. There is a lot of speculation and misinformation about blockchain technology. While it is a rather technical subject, it can easily be understood if taught by the right person. In this simplified guide on blockchain, you'll learn how this new technology actually works. You'll be guided through every aspect of blockchain thoroughly to gain a deeper understanding of the meaning behind it. By the end of the book, you'll know everything you need to know about this topic and be ready use that information for future applications and investments. A preview of what you're getting out of "Blockchain Technology Explained" when downloading today: How The Blockchain Technology Works Benefits Of Blockchain Technology Challenges Of Blockchain Technology Why Blockchain Is Important Blockchain Wallet The Future Of Blockchain Blockchain Programming Blockchain Security Blockchain Mining MUCH, MUCH, MORE! In comparison to the majority of books on the same topic, this one is not filled with unrelated information and facts just to fill up the pages. Blockchain Technology Explained is a straightforward resource provided to give the readers the most value possible. Scroll to the top and select the "BUY" button for instant access! Get Your Own Copy Today! Available To Read On Your Computer, MAC, Smartphone, Kindle Reader, iPad, or Tablet! Related: Blockchain

Wallet, Blockchain Bitcoin, Blockchain 101, Cryptocurrency, Bitcoin, Ethereum, Ripple xrp, Litecoin, Cardano, NEM, NEO, Stellar, EOS, IOTA, Dash, Monero, TRON, ICON, Lisk, Qtum, RaiBlocks, VeChain, OmiseGo, Populous, Zcash, Tether, Verge, Stratis, Siacoin, Binance Coin, Bytecoin, Ardor, Steem, Status, Bitshares, Maker, Ox, Waves, Dogecoin, Veritaseum, Komodo, Cryptocurrency trading what is blockchain technology blockchain bitcoin cryptocurrencies cryptography blockchain application blockchain 101 blockchain technology, bitcoin trading, blockchain technology, blockchains, the blockchain, how blockchain work, what is blockchain, blockchain explained blockchain bitcoin explained mastering it for investing and bitcoin trading, trading bitcoins and what is is cryptocurrency bitcoin blockchain ethereum blockchain ibm, blockchain technology explained, blockchain wallet, blockchain books, blockchain explained, blockchain explained bitcoin ethereum books trading investing mining blockchain *Artificial Intelligence as a Disruptive Technology* Aug 29 2022 Artificial intelligence (AI) is the latest technological evolution which is transforming the global economy and is a major part of the "Fourth Industrial Revolution." This book covers the meaning, types, subfields and applications of AI, including U.S. governmental policies and regulations, ethical and privacy issues, particularly as they pertain and affect facial recognition programs and the Internet-of Things (IoT). There is a lengthy analysis of bias, AI's effect on the current and future job market, and how AI precipitated fake news. In addition, the text covers basics of intellectual property rights and how AI will transform their protection. The author then moves on to explore international initiatives from the European Union, China's New Generation Development Plan, other regional areas, and international conventions. The book concludes with a discussion of super intelligence and the question and applicability of consciousness in machines. The interdisciplinary scope of the text will appeal to any scholars, students and general readers interested in the effects of AI on our society, particularly in the fields of STS, economics, law and politics.

Blockchain Technology Applications in Businesses and Organizations Dec 09 2020 Blockchain technology has the ability to disrupt industries and transform business models since all intermediaries and stakeholders can now interact with little friction and at a fraction of the current transaction costs. Using blockchain technology, firms can undergo new applications and processes by pursuing transparency and control, low bureaucracy, trustless relationships, high standards of responsibility, and sustainability. As a result, business and organizations can successfully implement blockchain to grant transparency to consumers and end-users; remove challenges linked to pollution, frauds, human rights, abuse, and other inefficiencies; as well as guaranteed traceability of goods and services by univocally identifying the provenance inputs' quantity and quality along with their treatment and origin. Blockchain Technology Applications in Businesses and Organizations reveals the true advantages that blockchain entails for firms by creating transparent and digital transactions, resolves conflicts and exceptions, and provides incentive-based mechanisms and smart contracts. This book seeks to create a clear understanding of blockchain's applications such that business leaders can see and evaluate its real advantages. Blockchain is then analyzed not from the typical perspective of financial tools using cryptocurrencies and bitcoins but from the perspective of the business advantages for business and organizations. Specifically, the book highlights the advantages of blockchain across different segments and industries by analyzing specific aspects like procurement, manufacturing, contracts, inventory, logistics, operations, sustainability, technology, and innovation. It is an essential reference source for managers, executives, IT specialists, students, operations managers, supply chain managers, project managers, technology managers, academicians, and researchers.

The Global Politics of Artificial Intelligence Sep 25 2019 Technologies such as artificial intelligence have led to significant advances in science and medicine, but have also facilitated new forms of repression, policing and surveillance. AI policy has become without doubt a significant issue of global politics. The Global Politics of Artificial Intelligence tackles some of the issues linked to AI development and use, contributing to a better understanding of the global politics of AI. This is an area where enormous work still needs to be done, and the contributors to this volume provide

significant input into this field of study, to policy makers, academics, and society at large. Each of the chapters in this volume works as freestanding contribution, and provides an accessible account of a particular issue linked to AI from a political perspective. Contributors to the volume come from many different areas of expertise, and of the world, and range from emergent to established authors.

Introduction to Internet of Things in Management Science and Operations Research Oct 26 2019 This book aims to provide relevant theoretical frameworks and the latest empirical research findings in Internet of Things (IoT) in Management Science and Operations Research. It starts with basic concept and present cases, applications, theory, and potential future. The contributed chapters to the book cover wide array of topics as space permits. Examples are from smart industry; city; transportation; home and smart devices. They present future applications, trends, and potential future of this new discipline. Specifically, this book provides an interface between the main disciplines of engineering/technology and the organizational, administrative, and planning capabilities of managing IoT. This book deals with the implementation of latest IoT research findings in practice at the global economy level, at networks and organizations, at teams and work groups and, finally, IoT at the level of players in the networked environments. This book is intended for professionals in the field of engineering, information science, mathematics, economics, and researchers who wish to develop new skills in IoT, or who employ the IoT discipline as part of their work. It will improve their understanding of the strategic role of IoT at various levels of the information and knowledge organization. The book is complemented by a second volume of the same editors with practical cases.

Enabling Blockchain Technology for Secure Networking and Communications Sep 29 2022 In recent years, the surge of blockchain technology has been rising due to its proven reliability in ensuring secure and effective transactions, even between untrusted parties. Its application is broad and covers public and private domains varying from traditional communication networks to more modern networks like the internet of things and the internet of energy crossing fog and edge computing, among others. As technology matures and its standard use cases are established, there is a need to gather recent research that can shed light on several aspects and facts on the use of blockchain technology in different fields of interest. *Enabling Blockchain Technology for Secure Networking and Communications* consolidates the recent research initiatives directed towards exploiting the advantages of blockchain technology for benefiting several areas of applications that vary from security and robustness to scalability and privacy-preserving and more. The chapters explore the current applications of blockchain for networking and communications, the future potentials of blockchain technology, and some not-yet-prospected areas of research and its application. This book is ideal for practitioners, stakeholders, researchers, academicians, and students interested in the concepts of blockchain technology and the potential and pitfalls of its application in different utilization domains.

The Future European Energy System Apr 12 2021 This open access book analyzes the transition toward a low-carbon energy system in Europe under the aspects of flexibility and technological progress. By covering the main energy sectors - including the industry, residential, tertiary and transport sector as well as the heating and electricity sector - the analysis assesses flexibility requirements in a cross-sectoral energy system with high shares of renewable energies. The contributing authors - all European energy experts - apply models and tools from various research fields, including techno-economic learning, fundamental energy system modeling, and environmental and social life cycle as well as health impact assessment, to develop an innovative and comprehensive energy models system (EMS). Moreover, the contributions examine renewable penetrations and their contributions to climate change mitigation, and the impacts of available technologies on the energy system. Given its scope, the book appeals to researchers studying energy systems and markets, professionals and policymakers of the energy industry and readers interested in the transformation to a low-carbon energy system in Europe.

Blockchain-Based Smart Grids Feb 08 2021 Blockchain-Based Smart Grids presents emerging applications of blockchain in electrical system and looks to future developments in the use of blockchain technology in the energy market. Rapid growth of renewable energy resources in power systems and significant developments in the telecommunication systems has resulted in new market designs being employed to cover unpredictable and distributed generation of electricity. This book considers the marriage of blockchain and grid modernization, and discusses the transaction shifts in smart grids, from centralized to peer-to-peer structures. In addition, it addresses the effective application of these structures to speed up processes, resulting in more flexible electricity systems. Aimed at moving towards blockchain-based smart grids with renewable applications, this book is useful to researchers and practitioners in all sectors of smart grids, including renewable energy providers, manufacturers and professionals involved in electricity generation from renewable sources, grid modernization and smart grid applications. Considers the current challenges facing smart grids and presents solutions on how blockchain technology could counter these issues Incorporates detailed applications of blockchain in smart grids based on dynamic research and developments Includes models, algorithms, and frameworks to practically demonstrate the uses of blockchain technology Written by a global group of authors for worldwide coverage