

Deloitte Center Blockchain News

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Can there be reliable information that is also relevant to decision making? Information for Efficient Decision Making: Big Data, Blockchain and Relevance focuses on the consolidation of information to facilitate decision making decisions in firms, in order to make their operations efficient to reduce their costs and consequently, increase their profitability. The advent of blockchain has generated great interest as an alternative to centralized organizations, where the data is gathered through a centralized ledger keeping of activities of the firm. The decentralized ledger keeping is one of the main features of blockchain that has given rise to many issues of technology, development, implementation, privacy, acceptance, evaluation and so on. Blockchain concept is a follow-up to big data environment facilitated by enormous progress in computer hardware, storage capacities and technological prowess. This has resulted in the rapid acquiring of data not considered possible earlier. With shrewd modeling analytics and algorithms, the applications have grown to significant levels. This handbook discusses the progress in data collection, pros and cons of collecting information on decentralized publicly available ledgers and several applications.

Wall Street Journal bestseller Have you ever struggled to feel worthy at work? Do you know or lead people who do? When Amelia Dunlop first heard the phrase "elevating the human experience" in a leadership team meeting with her boss, she thought, "He is crazy if he thinks we will ever say those words out loud to each other much less to a potential client." We've been conditioned to separate our personal and professional selves, but work is fundamental to our human experience. Love and worth have a place in work because our humanity and authentic identities make our work better. The acknowledgement of our intrinsic worth as human beings and the nurturing of our own or another's growth through love ultimately contribute to higher performance and organizational growth. Now as the Chief Experience Officer at Deloitte Digital, a leading Experience Consultancy, Amelia Dunlop knows we must embrace elevating the human experience for the advancement and success of ourselves and our organizations. This book integrates the findings of a quantitative study to better understand feelings of love and worth in the workplace and introduces three paths that allow individuals to create the professional experience they desire for themselves, their teams, and their clients. The first path explores the path of the self, an inward path where we learn to love ourselves when we show up for work, and examines the obstacles that hinder us. The second path centers around learning to love and recognize the worth of another in our lives, adding to the worth we feel and providing a source of meaning to our lives. The third path considers the community of work and learning to love and recognize the worth of those we meet every day at work, especially for those who may be systematically marginalized, unseen, or unrepresented. Drawing on her own personal journey to find love and worth at work in her twenty-year career as a management consultant, Amelia also weaves together insights from philosophers, theologians, and sociologists with the stories of people from diverse backgrounds gathered during her research. Elevating the Human Experience: Three Paths to Love and Worth at Work is for anyone who has felt the struggle to feel worthy at work, as well as for those who have no idea what it may feel like to struggle every day just to feel loved and worthy, but love people and lead people who do. It's a practical approach to elevating the human experience that will lead to important conversations about values and purpose, and ultimately, meaningful change.

Signals for StrategistsSensing Emerging Trends in Business and Technology

A Comprehensive Introduction

The Printers' Guild

Artificial Intelligence

Architectures, Challenges, and Applications

Digital Supply Networks: Transform Your Supply Chain and Gain Competitive Advantage with Disruptive Technology and Reimagined Processes

Global Innovation Index 2020

Policy and Regulatory Challenges in Asia

The blockchain is widely heralded as the new internet - another dimension in an ever-faster, ever-more-powerful interlocking of ideas, actions and values. Principally the blockchain is a ledger distributed across a large array of machines that enables digital ownership and exchange without a central administering body. Within the arts it has profound implications as both a means of organising and distributing material, and as a new subject and medium for artistic exploration. This landmark publication will bring together a diverse array of artists and researchers engaged with the blockchain, unpacking, critiquing and marking the arrival of it on the cultural landscape for a broad readership across the arts and humanities. Contributors: Cesar Escudero Andaluz, Jaya Klara Brekke, Theodoros Chiotis, Ami Clarke, Simon Denny, The Design Informatics Research Centre (Edinburgh), Max Dovey, Mat Dryhurst, Primavera De Filippi, Peter Gomes, Elias Haase, Juhee Hahm, Max Hampshire, Kimberley ter Heerd, Holly Herndon, Helen Kaplinsky, Paul Kolling, Elli Kurus, Nikki Loef, Bjorn Magnhildoen, Rob Myers, Martin Nadal, Rachel O'Dwyer, Edward Picot, Paul Seidler, Hito Steyerl, Surfatal, Lina Theodorou, Pablo Velasco, Ben Vickers, Mark Waugh, Cecilia Wee, and Martin Zeilinger.

This book collects research works of data-driven medical diagnosis done via Artificial Intelligence based solutions, such as Machine Learning, Deep Learning and Intelligent Optimization. Physical devices powered with Artificial Intelligence are gaining importance in diagnosis and healthcare. Medical data from different sources can also be analyzed via Artificial Intelligence techniques for more effective results.

The Pragmatic Guide to Driving Value and Disrupting Markets with Blockchain "Blockchain's potential to transform businesses has generated a tremendous amount of excitement across industries. However, it can be difficult for decision makers to develop a practical approach to blockchain for their specific business requirements. By identifying and clearly describing the value of blockchain for enterprises, as well as the processes required to harness blockchain to achieve business objectives, Blockchain for Business presents a startlingly concise yet comprehensive roadmap for business leaders. This book is an excellent resource for anyone looking to leverage blockchain to transform their business." — Dr. Won-Pyo Hong, President & CEO of Samsung SDS "Much has been written about blockchain in the past few years: what it is and what it is not (at various levels of detail), as well as the technology's long-term strategic value for companies, industries, and economies. However, what we've been missing is a practical, operational, 'how to' set of steps for creating, implementing, and operating a blockchain-based solution. This book aims to fill that gap. It's an invaluable tool for anyone ready to take the plunge and start taking advantage of this remarkable technology." —Irving Wladawsky-Berger, research affiliate, MIT; columnist, WSJ CIO Journal; VP Emeritus, IBM "I will never be able to adequately express how useful this book will be to my class. In addition the great chapters on cybersecurity, I loved the Integration Models, especially 'Coexistence with Systems of Record.' Legacy integration with Blockchain is a critical barrier, and you nailed it!" —Thomas Doty, JD, LL.M - Adjunct Professor, University of New Hampshire Law Blockchain enables enterprises to reinvent processes and business models and to pursue radically disruptive applications. Blockchain for Business is a concise, accessible, and pragmatic guide to both the technology and the opportunities it creates. Authored by three experts from IBM's Enterprise Blockchain practice, it introduces industry-specific and cross-industry use cases, and reviews best-practice approaches to planning and delivering blockchain projects. With a relentless focus on real-world business outcomes, the authors reveal what blockchain can do, what it can't do yet, and where it's headed. Understand five elements that make blockchain so disruptive: transparency, immutability, security, consensus, and smart contracts Explore key use cases: cross-border payments, food and drug safety, provenance, trade finance, clinical trials, land registries, and more See how trusted blockchain networks are facilitating entirely new business models Compare blockchain types: permissioned, permissionless, private, public, federated, and hybrid Anticipate key technical, business, regulatory, and governance challenges Build blockchain financial models, investment rubrics, and risk frameworks Organize and manage teams to transform blockchain plans into reality Whether you're a senior decision maker, technical professional, customer, or investor, Blockchain for Business will help you cut through the hype and objectively assess blockchain's potential in your business. Register your product for convenient access to downloads, updates, and/or corrections as they become available.

Trade has always been shaped by technological innovation. In recent times, a new technology, Blockchain, has been greeted by many as the next big game-changer. Can Blockchain revolutionize international trade? This publication seeks to demystify the Blockchain phenomenon by providing a basic explanation of the technology. It analyses the relevance of this technology for international trade by reviewing how it is currently used or can be used in the various areas covered by WTO rules. In doing so, it provides an insight into the extent to which this technology could affect cross-border trade in goods and services, and intellectual property rights. It discusses the potential of Blockchain for reducing trade costs and enhancing supply chain transparency as well as the opportunities it provides for small-scale producers and companies. Finally, it reviews various challenges that must be addressed before the technology can be used on a wide scale and have a significant impact on international trade.

Blockchain Technology

Thinking the Blockchain

Artificial Intelligence for Data-Driven Medical Diagnosis

The Impact of FinTech, AI, and Crypto on Financial Services

Building a High Quality Marketplace for Crypto Data

Elevating the Human Experience

Theory and Practice

An authoritative introduction to the exciting new technologies of digital money Bitcoin and Cryptocurrency Technologies provides a comprehensive introduction to the revolutionary yet often misunderstood new technologies of digital currency. Whether you are a student, software developer, tech entrepreneur, or researcher in computer science, this authoritative and self-contained book tells you everything you need to know about the new global money for the Internet age. How do Bitcoin and its block chain actually work? How secure are your bitcoins? How anonymous are their users? Can cryptocurrencies be regulated? These are some of the many questions this book answers. It begins by tracing the history and development of Bitcoin and cryptocurrencies, and then gives the conceptual and practical foundations you need to engineer secure software that interacts with the Bitcoin network as well as to integrate ideas from Bitcoin into your own projects. Topics include decentralization, mining, the politics of Bitcoin, altcoins and the cryptocurrency ecosystem, the future of Bitcoin, and more. An essential introduction to the new technologies of digital currency Covers the history and mechanics of Bitcoin and the block chain, security, decentralization, anonymity, politics and regulation, altcoins, and much more Features an accompanying website that includes instructional videos for each chapter, homework problems, programming assignments, and lecture slides Also suitable for use with the authors' Coursera online course Electronic solutions manual (available only to professors)

Mobile devices have become an essential item in the daily lives of many people. As with any innovation, mobile services present both opportunities and challenges to current business models. The development of mobile communication coupled with evolving mobile services have completely changed the business landscape and have transformed consumer behavior. It is important to understand the impact that these services have on users' lives, business, and society. Impact of Mobile Services on Business Development and E-Commerce is a collection of innovative research that focuses on the importance of mobile services in business development and discusses the provision of decentralized services, mobile commerce and marketing, and new models for the delivery of mobile services such as business-to-consumer and peer-to-peer. While highlighting topics including global market, consumer behavior, and customer satisfaction, this book is ideally designed for business managers, executives, marketers, entrepreneurs, financial advisors, consumer behavior analysts, computer engineers, software developers, IT specialists, students, researchers, and business professionals.

Besides love, money and health are the most valuable human yearnings. Therefore, blockchain technology is paramount: a new foundation of confidence for human valuable transactions. Like information sharing was catalyzed on the pre-blockchain internet, transactions are now triggered on the new internet of value. In this second digital inflection point, economic media encompasses value beside information, and individuals can privately transact digital assets for the first time in history. Decentralized but structured organizations running on blockchain networks reduce transaction costs and are particularly competitive insofar as they guarantee data authenticity, confidentiality, and integrity, providing functional autonomy with disintermediation and smart contracts. Everything changed after user data were made public on the internet and privately traded by big tech companies, and nothing will be the same once that data is made private on the internet and publicly transacted by their rightful owners. While the internet of information reshaped the world, the internet of value will reform it, and everything will depend politically on this being done freely. Political and Economic Implications of Blockchain Technology in Business and Healthcare provides relevant theoretical frameworks on the civilizational impact of blockchain technology, which redesigns human interactions concerning value transactions. It gives ideas, concepts, and instruments to advance the knowledge on cryptoeconomics and decentralized governance in the new distributed trust paradigm. The chapters explore the ethical repercussions and profound political-economic consequences to society, providing insights into business applications focusing on the healthcare sector. In a blockchain era affected by the post-COVID-19 new normal, which mixes politics, economics, and health, this book is essential for students and researchers in social and life sciences; professionals and policymakers working in the fields of public and business administration; and healthcare workers and researchers, academicians, and students interested in blockchain technology and its political and economic impacts in the industry and society.

This book discusses blockchain technology and its potential applications in digital government and the public sector. With its robust infrastructure and append-only record system, blockchain technology is being increasingly employed in the public sector, specifically where trustworthiness and security are of importance. Written by leading scholars and practitioners, this edited volume presents challenges, benefits, regulations, frameworks, taxonomies, and applications of blockchain technology in the public domain. Specifically, the book analyzes the implementation of blockchain technologies in the public sector and the potential reforms it would bring. It discusses emerging technologies and their role in the implementation of blockchain technologies in the public sector. The book details the role of blockchain in the creation of public value in the delivery of public sector services. The book analyzes effects, impacts, and outcomes from the implementation of blockchain technologies in the public sector in select case studies. Providing up-to-date information on important developments regarding blockchain in government around the world, this volume will appeal to academics, researchers, policy-makers, public managers, international organizations, and technical experts looking to understand how blockchain can enhance public service delivery.

Artists Re

The Power of Pull

Fintech in Islamic Finance

Blueprint for a New Economy

Deviant Globalization

The Insights You Need from Harvard Business Review

Blockchain

Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement

This report offers an analytical framework that allows for more systemic assessments of distributed ledger technology (DLT) and its applications. It examines the evolution and typology of the emergent technology, its existing and projected applications, and regulatory and policy issues that they entail. This report highlights the trends, concerns, and potential opportunities, benefits and risks to using DLT and offers a functional and proportional approach to these issues.

As is arguably common knowledge among defense procurement professionals, the Department of Defense (DoD) acquisitions process is slow, expensive, and inefficient. Since 1990, the Government Accountability Office (GAO) has highlighted DoD Weapons Systems Acquisition and Supply Chain Management as two high-risk areas requiring focused effort to meet cost and performance potential to advance these goals. Congress agrees. By transforming how we conduct business, the DoD can realize significant benefits from blockchain technology. Private industry is testing blockchain and offers an opportunity for the DoD to learn from established practices. This research centers on how industry is implementing blockchain technology and leads to achieve efficiencies. We aimed to do this with an analysis of specifically selected case studies in which private companies use blockchain technology to solve issues comparable to those of the DoD. Our analysis revealed common elements during the successful implementation of blockchain within the private companies. After performing the case study analysis, we identified and potentially significant to the DoD and public procurement sector. Furthermore, we include a list of recommendations based on the trends identified during data analysis.This compilation includes a reproduction of the 2019 Worldwide Threat Assessment of the U.S. Intelligence Community.I. Introduction * II. Background * A. Blockchain * 1. Key Aspects * 2. Current Trends * III. Method * A. Structured Literature Review * B. Case Study * IV. Analysis and Findings * A. Findings From Literature Review * 1. Need for Auditability * 2. Duplicative Verification * 3. Traceability and Transparency * B. Case Studies * 1. Big Four Accounting Organizations Blockchain Program * 2. Maersk International Shipping Blockchain * 3. Walmart Blockchain * C. Recommendations * A. Trends * B. Blockchain as a Solution * C. Recommendations * 1. Develop Necessary Organic Capabilities * 2. Government Purchase Card Pilot * 3. Procurement and Supply Chain System * VI. Conclusion * A. Limitations * B. Future Research * C. ConclusionBlockchain technology has garnered widespread attention spanning from congressional policy to the public sphere. It is important to understand the benefits of blockchain technology and how it can be used to improve the way we do business, verify information, and create trust in interactions with unfamiliar people.

This book, written jointly by an engineer and artificial intelligence expert along with a lawyer and banker, is a glimpse on what the future of the financial services will look like and the impact it will have on society. The first half of the book provides a detailed yet easy to understand educational and technical overview of FinTech, artificial intelligence and cryptocurrency. The second half provides a practical, concise and engaging overview of their latest trends and their impact on the future of the financial services industry including numerous use cases and practical examples. The book is a must read for any professional currently working in finance, any student studying the topic or anyone curious on how to use blockchain technology.

The Future of Finance

Blockchain for Cybersecurity and Privacy

Work Disrupted

Sensing Emerging Trends in Business and Technology

How Will Blockchain Change The World

Information For Efficient Decision Making: Big Data, Blockchain And Relevance

Blockchain and Crypto Currency

This book presents a system view of the digital scientific and technological revolution, including its genesis and prerequisites, current trends, as well as current and potential issues and future prospects. It gathers selected research papers presented at the 12th International Scientific and Practical Conference, organized by the Institute of Scientific Communications. The conference “Artificial Intelligence: Anthropogenic Nature vs. Social Origin” took place on December 5-7, 2019 in Krasnoyarsk, Russia. The book is intended for academic researchers and independent experts studying the social and human aspects of the Fourth Industrial Revolution and the associated transition to the digital economy and Industry 4.0, as well as the creators of the legal framework for this process and its participants – entrepreneurs, managers, employees and consumers. It covers a variety of topics, including “intelligent” technologies and artificial intelligence, the digital economy, the social environment of the Fourth Industrial Revolution and its consequences for humans, the regulatory framework of the Fourth Industrial Revolution, and the “green” consequences, prospects and financing of the Fourth Industrial Revolution.

Deliver unprecedented customer value and seize your competitive edge with a transformative digital supply network Digital tech has disrupted life and business as we know it, and supply chain management is no exception. But how exactly does digital transformation affect your business? What are the breakthrough technologies and their capabilities you need to know about? How will digital transformation impact skills requirements and work in general? Do you need to completely revamp your understanding of supply chain management? And most importantly: How do you get started? Digital Supply Networks provides clear answers to these and many other questions. Written by an experienced team comprised of Deloitte consultants and leading problem-driven scholars from a premier research university, this expert guide leads you through the process of improving operations building supply networks, increasing revenue, reimagining business models, and providing added value to customers, stakeholders, and society. You'll learn everything you need to know about: Stages of development, roles, capabilities, and the benefits of DSN Big data analytics including its attributes, security, and authority Machine learning, Artificial Intelligence, Blockchain, robotics, and the Internet of Things Synchronized planning, intelligent supply, and digital product development Vision, attributes, technology, and benefits of smart manufacturing, dynamic logistics, and fulfillment A playbook to guide the digital transformation journey Drawing from real world-experience and problem-driven academic research, the authors provide an in-depth account of the transformation to digitally connected supply

networks. They discuss the limitations of traditional supply chains and the underlying capabilities and potential of digitally-enabled supply flows. The chapters burst with expert insights and real-life use cases grounded in tomorrow’s industry needs. Success in today’s hyper-competitive, fast-paced business landscape, characterized by the risk of black swan events, such as the 2020 COVID-19 global pandemic, requires the reimagination and the digitalization of complex demand-supply systems, more collaborative and connected processes, and smarter, more dynamic data-driven decision making—which can only be achieved through a fully integrated Digital Supply Network. Since the launch of Bitcoin in 2009 several hundred different ‘cryptocurrencies’ have been developed and become accepted for a wide variety of transactions in leading online commercial marketplaces and the ‘sharing economy’, as well as by more traditional retailers, manufacturers, and even by charities and political parties. Bitcoin and its competitors have also garnered attention for their wildly fluctuating values as well as implication in international money laundering, Ponzi schemes and online trade in illicit goods and services across borders. These and other controversies surrounding cryptocurrencies have induced varying governance responses by central banks, government ministries, international organizations, and industry regulators worldwide. Besides formal attempts to ban Bitcoin, there have been multifaceted efforts to incorporate elements of blockchains, the peer-to-peer technology underlying cryptocurrencies, in the wider exchange, recording, and broadcasting of digital transactions. Blockchains are being mobilized to support and extend an array of governance activities. The novelty and breadth of growing blockchain-based activities have fuelled both utopian promises and dystopian fears regarding applications of the emergent technology to Bitcoin and beyond. This volume brings scholars of anthropology, economics, Science and Technology Studies, and sociology together with GPE scholars in assessing the actual implications posed by Bitcoin and blockchains for contemporary global governance. Its interdisciplinary contributions provide academics, policymakers, industry practitioners and the general public with more nuanced understandings of technological change in the changing character of governance within and across the borders of nation-states.

Blockchain technology is defined as a decentralized system of distributed registers that are used to record data transactions on multiple computers. The reason this technology has gained popularity is that you can put any digital asset or transaction in the blocking chain, the industry does not matter. Blockchain technology has infiltrated all areas of our lives, from manufacturing to healthcare and beyond. Cybersecurity is an industry that has been significantly affected by this technology and may be more so in the future. Blockchain for Cybersecurity and Privacy: Architectures, Challenges, and Applications is an invaluable resource to discover the blockchain applications for cybersecurity and privacy. The purpose of this book is to improve the awareness of readers about blockchain technology applications for cybersecurity and privacy. This book focuses on the fundamentals, architectures, and challenges of adopting blockchain for cybersecurity. Readers will discover different applications of blockchain for cybersecurity in IoT and healthcare. The book also includes some case studies of the blockchain for e-commerce online payment, retention payment system, and digital forensics. The book offers comprehensive coverage of the most essential topics, including: Blockchain architectures and challenges Blockchain threats and vulnerabilities Blockchain security and potential future use cases Blockchain for securing Internet of Things Blockchain for cybersecurity in healthcare Blockchain in facilitating payment system security and privacy This book comprises a number of state-of-the-art contributions from both scientists and practitioners working in the fields of blockchain technology and cybersecurity. It aspires to provide a relevant reference for students, researchers, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on the blockchain for cybersecurity and privacy.

Coding Democracy

Who Will Finance Innovation?

Emerging Trends and Applications

Black Market Economy in the 21st Century

Political and Economic Implications of Blockchain Technology in Business and Healthcare

Blockchain Technology: Applications and Challenges

The Fourth Industrial Revolution

The Global Innovation Index 2020 provides detailed metrics about the innovation performance of 131 countries and economies around the world. Its 80 indicators explore a broad vision of innovation, including political environment, education, infrastructure and business sophistication. The 2020 edition sheds light on the state of innovation financing by investigating the evolution of financing mechanisms for entrepreneurs and other innovators, and by pointing to progress and remaining challenges – including in the context of the economic slowdown induced by the coronavirus disease (COVID-19) crisis.

The world is changing at a fast pace, so is the Government and Governance style. Humans are bound to go for Algorithmic strategies rather than manual or electronic ones in different domains. This book introduces the Algorithmic Government or Government by Algorithm, which refers to authorizing machines in the Public Sector for automated decision-making based on Artificial Intelligence, Data Science, and other technologies. It is an emerging concept introduced globally and will be considered revolutionary in the future. The book covers concepts, applications, progress status, and potential use-cases of Algorithmic Government. This book serves as introductory material for the readers from technology, public policy, administration, and management fields.

Explains the principle of "pull" and how to effectively apply it to individuals and organizations to increase organizational and social change and develop creative talent.

This book is for strategists0 4leaders, managers, entrepreneurs0 4who are so caught up in the daily pressures of business that they’re missing key signals of their future reality. It’s like driving a car heads down, staring at the dashboard, rather than heads up, looking through the windshield. We need to do both. The book is devoted to the practice of sensing, or scanning the horizon for signs of emerging trends. The sooner we see them, the better our response.Each chapter starts with a set of signals0 4data we observed that, taken together, helped us to reveal a trend. The impact of new technology on strategy is a theme of the book, and each chapter looks at how organizations are using new technologies to their advantage.The goal is to spark meaningful conversations within organizations: How could we participate in the collaborative economy? What could our CIO and our CMO be doing to drive strategy, innovation, and revenue growth? What could we do to leverage the Internet of Things and intelligent automation as catalysts of invention? Could we use MOOCs as pivots for corporate training, recruiting, and marketing? How might technology transform the manufacturing process, our supply chain, and the knowledge work that we do? Could we take advantage of the renaissance in domestic energy (oil and gas)? What could we be doing to counter cyber crime? What is our organization doing to tune into signals of emerging trends that may be relevant to us?In an environment where the pace of change is accelerating, sensing has become an essential discipline for all organizations. No matter your role in an organization, sensing emerging trends can make you more effective and more valuable in your work. If you’ve been working too heads-down lately and feel overwhelmed by data and deadlines, then this book is for you. It’s a quick read designed to give you a heads up on your horizon.

Practical Magic for Crafting Powerful Work Relationships

Blockchain for Business

How Small Moves, Smartly Made, Can Set Big Things in Motion

Universal Health Coin

How the Technology Behind Bitcoin Is Changing Money, Business, and the World

Opportunity, Resilience, and Growth in the Accelerated Future of Work

Business Chemistry

This book is for anyone who wants to gain an understanding of Blockchain technology and its potential. The book is research-oriented and covers different verticals of Blockchain technology. It discusses the characteristics and features of Blockchain, includes techniques, challenges, and future trends, along with case studies for deeper understanding. Blockchain Technology: Exploring Opportunities, Challenges, and Applications covers the core concepts related to Blockchain technology starting from scratch. The algorithms, concepts, and application areas are discussed according to current market trends and industry needs. It presents different application areas of industry and academia and discusses the characteristics and features of this technology. It also explores the challenges and future trends and provides an understanding of new opportunities. This book is for anyone at the beginner to intermediate level that wants to learn about the core concepts related to Blockchain technology.

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 Sharhah 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.

A guide to putting cognitive diversity to work Ever wonder what it is that makes two people click or clash? Or why some groups excel while others fumble? Or how you, as a leader, can make or break team potential? Business Chemistry holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the Business Chemistry framework provides a simple yet powerful way to identify meaningful differences between people’s working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? Business Chemistry will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others shut people down. Suppose you could gain people’s trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs. Suppose you could activate the potential benefits of diversity on your teams and in your organizations, improving collaboration to achieve the group’s collective potential. Business Chemistry offers all of this--you don’t have to leave it up to chance, and you shouldn’t. Let this book guide you in creating great chemistry!

This book discusses the various open issues of blockchain technology, such as the efficiency of blockchain in different domains of digital cryptocurrency, smart contracts, smart education system, smart cities, cloud identity and access, safeguard to cybersecurity and health care. For the first time in human history, people across the world can trust each other and transact over a large peer-to-peer networks without any central authority. This proves that, trust can be built not only by centralized institution but also by protocols and cryptographic mechanisms. The potential and collaboration between organizations and individuals within peer networks make it possible to potentially move to a global collaborative network without centralization.

Blockchain is a complex social, economic and technological phenomenon. This questions what the established terminologies of the modern world like currency, trust, economics and exchange would mean. To make any sense, one needs to realize how much insightful and potential it is in the context and the way it is technically developed. Due to rapid changes in accessing the documents through online transactions and transferring the currency online, many previously used methods are proving insufficient and not secure to solve the problem which arises in the safe and hassle-free transaction. Nowadays, the world changes rapidly, and a transition flow is also seen in Business Process Management (BPM). The traditional Business Process Management holds good establishment last one to two decades, but, the internal workflow confined in a single organization. They do not manage the workflow process and information across organizations. If they do so, again fall in the same trap as the control transfers to the third party that is centralized server and it leads to tampering the data, and single point of failure. To address these issues, this book highlights a number of unique problems and effective solutions that reflects the state-of-the art in blockchain Technology. This book explores new experiments and yields promising solutions to the current challenges of blockchain technology. This book is intended for the researchers, academicians, faculties, scientists, blockchain specialists, business management and software industry professionals who will find it beneficial for their research work and set new ideas in the field of blockchain. This book caters research work in many fields of blockchain engineering, and it provides an in-depth knowledge of the fields covered.

Blockchain Revolution

Signals for Strategists

Bitcoin and Cryptocurrency Technologies

Impact of Mobile Services on Business Development and E-Commerce

Spatial Computing

Theories, Reforms, and Case Studies

How Hackers Are Disrupting Power, Surveillance, and Authoritarianism

An accessible guide to the ideas and technologies underlying such applications as GPS, Google Maps, Pok é mon Go, ride-sharing, driverless cars, and drone surveillance. Billions of people around the globe use various applications of spatial computing daily—by using a ride-sharing app, GPS, the e911 system, social media check-ins, even Pok é mon Go. Scientists and researchers use spatial computing to track diseases, map the bottom of the oceans, chart the behavior of endangered species, and create election maps in real time. Drones and driverless cars use a variety of spatial computing technologies. Spatial computing works by understanding the physical world, knowing and communicating our relation to places in that world, and navigating through those places. It has changed our lives and infrastructures profoundly, marking a significant shift in how we make our way in the world. This volume in the MIT Essential Knowledge series explains the technologies and ideas behind spatial computing. The book offers accessible descriptions of GPS and location-based services, including the use of Wi-Fi, Bluetooth, and RFID for position determination out of satellite range; remote sensing, which uses satellite and aerial platforms to monitor such varied phenomena as global food production, the effects of climate change, and subsurface natural resources on other planets; geographic information systems (GIS), which store, analyze, and visualize spatial data; spatial databases, which store multiple forms of spatial data; and spatial statistics and spatial data science, used to analyze location-related data.

Can blockchain solve your biggest business problem? While news outlets are transfixed with Bitcoin’s latest swings, your most forward-looking competitors are tuning out the noise and quietly making key bets on blockchain. They’re effortlessly tracking every last link in their supply chains. They’re making bureaucratic paper trails obsolete while keeping their customers’ data safer. And they’re imagining new ways to use this next foundational technology to sustain their competitive advantage. What should you be doing right now to ensure that your business is poised for success? These articles by blockchain experts and consultants will help you understand today’s most essential thinking on what blockchain is capable of now, how to adopt it in your organization, and how the technology is likely to be used in the near future and beyond.

Blockchain: The Insights You Need from Harvard Business Review will help you spearhead important conversations, get going on the right blockchain initiatives in your company, and capitalize on the opportunity of the coming blockchain wave. Catch up on current topics and deepen your understanding of them with the Insights You Need series from Harvard Business Review. Featuring some of HBR’s best and most recent thinking, Insights You Need titles are both a primer on today’s most pressing issues and an extension of the conversation, with interesting research, interviews, case studies, and practical ideas to help you explore how a particular issue will impact your company and what it will mean for you and your business.

Hackers as vital disruptors, inspiring a new wave of activism in which ordinary citizens take back democracy. Hackers have a bad reputation, as shady deployers of bots and destroyers of infrastructure. In Coding Democracy, Maureen Webb offers another view. Hackers, she argues, can be vital disruptors. Hacking is becoming a practice, an ethos, and a metaphor for a new wave of activism in which ordinary citizens are inventing new forms of distributed, decentralized democracy for a digital era. Confronted with concentrations of power, mass surveillance, and authoritarianism enabled by new technology, the hacking movement is trying to “ build out ” democracy into cyberspace. Webb travels to Berlin, where she visits the Chaos Communication Camp, a flagship event in the hacker world; to Silicon Valley, where she reports on the Apple-FBI case, the significance of Russian troll farms, and the hacking of tractor software by desperate farmers; to Barcelona, to meet the hacker group XNet, which has helped bring nearly 100 prominent Spanish bankers and politicians to justice for their role in the 2008 financial crisis; and to Harvard and MIT, to investigate the institutionalization of hacking. Webb describes an amazing array of hacker experiments that could dramatically change the current political economy. These ambitious hacks aim to displace such tech monoliths as Facebook and Amazon; enable worker cooperatives to kill platforms like Uber; give people control over their data; automate trust; and provide citizens a real say in governance, along with capacity to reach consensus. Coding Democracy is not just another optimistic declaration of technological utopianism; instead, it provides the tools for an urgently needed upgrade of democracy in the digital era.

If you only read one book on the future of work, Work Disrupted: Opportunity, Resilience, and Growth in the Accelerated Future of Work should be that book. The future of work swept in sooner than expected, accelerated by Covid-19, creating an urgent need for new maps, new mindsets, new strategies-- and most importantly, a trusted guide to take us on this journey. That guide is Jeff Schwartz. A founding partner of Deloitte Consulting ’ s Future of Work practice, Schwartz brings clarity, humor, wisdom, and practical advice to the future of work, a topic surrounded by misinformation, fear, and confusion. With a fundamental belief in the power of human innovation and creativity, Schwartz presents the key issues, critical choices, and potential pitfalls that must be on everyone ’ s radar. If you’re anxious about robots taking away your job in the future, you will take comfort in the realistic perspective, fact-based insights, and practical steps Schwartz offers. If you’re not sure where to even begin to prepare, follow his level-headed advice and easy-to-follow action plans. If you’re a business leader caught between keeping up, while also being thoughtful about the next moves, you will appreciate the playbook directed at you. If you’re wondering how Covid-19 will change how and where you will work, Work Disrupted has you covered. Written in a conversational style by Schwartz, with Suzanne Riss, an award-winning journalist and book author, Work Disrupted offers a welcome alternative to books on the topic that lack a broad perspective or dwell on the problems rather than offer solutions. Timely and insightful, the book includes the impact of Covid-19 on our present and future work. Interviews with leading thinkers on the future of work offer additional perspectives and guidance. Cartoons created for the book by leading business illustrator Tom Fishburne bring to life the reader ’ s journey and the complex issues surrounding the topic. Told from the perspective of an economist, management advisor, and social commentator, Work Disrupted offers hope--and practical advice--exploring such topics as: How we frame what lies ahead is a critical navigational tool. Discover the signposts that can serve as practical guides for individuals who have families to support, mortgages to pay, and want to stay gainfully employed no matter what the future holds. The importance of recognizing the rapidly evolving opportunities in front of us. Learn how to build resilience—in careers, organizations, and leaders—for what lies ahead. Why exploring new mental models helps us discover the steps we need to take to thrive. Individuals can decide how to protect their livelihood while businesses and public institutions can consider how they can lead and support workforces to thrive in twenty-first-century careers and work. "Jeff’s marvelous book is a roadmap for the new world of work with clear signposts. His insights will help readers discover opportunities, take action, and find hope in uncertain times. The ideas are fresh, beautifully crafted, and immediately applicable. This is not only a book to be read, but savored and used." —Dave Ulrich, Rensis Likert Professor, Ross School of Business, University of Michigan; Partner, the RBL Group; Co-author Reinventing the Organization

Impact of Disruptive Technologies on the Sharing Economy

The Discipline of Building Breakthroughs

Blockchain Technology in the Department of Defense (Dod) - Implementation to Improve Acquisitions, Procurement, and Supply Chain, Analysis of Private Sector Programs, Purchase Card Pilot Program

Ten Types of Innovation

Cryptocurrencies, Blockchains, and Global Governance

Scientific and Technical Revolution: Yesterday, Today and Tomorrow

Because it continually implements entrepreneurial creativity and innovative business models, the economic landscape is ever-changing in today’s globalized world. As consumers become more willing to accept new strategic trends, this has led to the emergence of disruptive technologies. Since this equipment has an insufficient amount of information and high risks, it is necessary to assess the potential of disruptive technologies in the commercial environment. Impact of Disruptive Technologies on the Sharing Economy provides emerging research exploring the theoretical and practical aspects of disruptive technologies and knowledge-based entrepreneurial efforts and applications within management, business, and economics. Featuring coverage on a broad range of topics such as consumer ethics, corporate governance, and insurance issues, this book is ideally designed for IT specialists, IT consultants, software developers, computer engineers, managers, executives, managing directors, students, professors, scientists, professionals, industry practitioners, academicians, and researchers seeking current research on the consequences of disruptive technologies.

Blockchain technology is powering our future. As the technology behind cryptocurrencies like bitcoin and Facebook's Libra, open software platforms like Ethereum, and disruptive companies like Ripple, it’s too important to ignore. In this revelatory book, Don Tapscott, the bestselling author of Wikinomics, and his son, blockchain expert Alex Tapscott, bring us a brilliantly researched, highly readable, and essential book about the technology driving the future of the economy. Blockchain is the ingeniously simple, revolutionary protocol that allows transactions to be simultaneously anonymous and secure by maintaining a tamperproof public ledger of value. Though it’s best known as the technology that drives bitcoin and other digital currencies, it also has the potential to go far beyond currency, to record virtually everything of value to humankind, from birth and death certificates to insurance claims, land titles, and even votes. Blockchain is also essential to understand if you’re an artist who wants to make a living off your art, a consumer who wants to know where that hamburger meat really came from, an immigrant who’s tired of paying big fees to send money home to your loved ones, or an entrepreneur looking for a new platform to build a business. And those examples are barely the tip of the iceberg. As with major paradigm shifts that preceded it, blockchain technology will create winners and losers. This book shines a light on where it can lead us in the next decade and beyond.

Innovation principles to bring about meaningful and sustainable growth in your organization Using a list of more than 2,000 successful innovations,including Cirque du Soleil, early IBM mainframes, the Ford Model-T,and many more, the authors applied a proprietary algorithm anddetermined ten meaningful groupings—the Ten Types ofInnovation—that provided insight into innovation. The TenTypes of Innovation explores these insights to diagnosepatterns of innovation within industries, to identify innovationopportunities, and to evaluate how firms are performing againstcompetitors. The framework has proven to be one of the mostenduring and useful ways to start thinking abouttransformation. Details how you can use these innovation principles to bringabout meaningful—and sustainable—growth within yourorganization Author Larry Keeley is a world renowned speaker, innovationconsultant, and president and co-founder of Doblin, the innovationpractice of Monitor Group; BusinessWeek named Keeley one of sevenInnovation Gurus who are changing the field The Ten Types of Innovation concept has influenced thousands ofexecutives and companies around the world since its discovery in1998. The Ten Types of Innovation is the first bookexplaining how to implement it.

Would you like to be a part of a movement to create the ultimate universal health system worldwide? We cant do it without you! Due to the emergence of the blockchain and cryptocurrency technology, we now have the ability to completely reinvent the way healthcare is financed and paid for worldwide. Join us by going to www.UniversalHealthCoin.com.

Introduction to Algorithmic Government

The Story of a Public Benefit Corporation Creating a Cash-Based Health Cost Sharing System That Utilizes Blockchain Technology to Provide Fair Payment for Health Services.

Bitcoin and Beyond

Distributed Ledger Technology and Digital Assets

Three Paths to Love and Worth at Work

Blockchain and the Public Sector

Can Blockchain Revolutionize International Trade?

Bitcoin is starting to come into its own as a digital currency, but the blockchain technology behind it could prove to be much more significant. This book takes you beyond the currency ("Blockchain 1.0") and smart contracts ("Blockchain 2.0") to demonstrate how the blockchain is in position to become the fifth disruptive computing paradigm after mainframes, PCs, the Internet, and mobile/social networking. Author Melanie Swan, Founder of the Institute for Blockchain Studies, explains that the blockchain is essentially a public ledger with potential as a worldwide, decentralized record for the registration, inventory, and transfer of all assets—not just finances, but property and intangible assets such as votes, software, health data, and ideas. Topics include: Concepts, features, and functionality of Bitcoin and the blockchain Using the blockchain for automated tracking of all digital endeavors Enabling censorship?resistant organizational models Creating a decentralized digital repository to verify identity Possibility of cheaper, more efficient services traditionally provided by nations Blockchain for science: making better use of the data-mining network Personal health record storage, including access to one’s own genomic data Open access academic publishing on the blockchain This book is part of an ongoing O’Reilly series. Mastering Bitcoin: Unlocking Digital Crypto-Currencies introduces Bitcoin and describes the technology behind Bitcoin and the blockchain. Blockchain: Blueprint for a New Economy considers theoretical, philosophical, and societal impact of cryptocurrencies and blockchain technologies.

Nobody can deny the importance of currency in the financial or economic world. With the advancements in technology, there was a need for some digital way to store data. Then Blockchain arrived and changed the thinking of people and businesses. Yes, Blockchain is definitely a breakthrough in the digital financial world and it is going to be the stronger technology for future generations. Big companies, as well as businesses, have felt the importance of this new technology. That is why many of the biggest organizations, business owners and businesses are focusing on Blockchain. They also think that this is going to be the front line method to transfer or send money from one place of the world to the other place within a few seconds. There is no doubt that Blockchain has already made great changes in the financial as well as the other fields of the world. In the future, it is expected to grow more and surely its future is bright.

This open access book contributes to the creation of a cyber ecosystem supported by blockchain technology in which technology and people can coexist in harmony. Blockchains have shown that trusted records, or ledgers, of permanent data can be stored on the Internet in a decentralized manner. The decentralization of the recording process is expected to significantly economize the cost of transactions. Creating a ledger on data, a blockchain makes it possible to designate the owner of each piece of data, to trade data pieces, and to market them. This book examines the formation of markets for various types of data from the theory of market quality proposed and developed by M. Yano. Blockchains are expected to give data itself the status of a new production factor. Bringing ownership of data to the hands of data producers, blockchains can reduce the possibility of information leakage, enhance the sharing and use of IoT data, and prevent data monopoly and misuse. The industry will have a bright future as soon as better technology is developed and when a healthy infrastructure is created to support the blockchain market.

Artificial intelligence (AI) is taking an increasingly important role in our society. From cars, smartphones, airplanes, consumer applications, and even medical equipment, the impact of AI is changing the world around us. The ability of machines to demonstrate advanced cognitive skills in taking decisions, learn and perceive the environment, predict certain behavior, and process written or spoken languages, among other skills, makes this discipline of paramount importance in today's world. Although AI is changing the world for the better in many applications, it also comes with its challenges. This book encompasses many applications as well as new techniques, challenges, and opportunities in this fascinating area.

Exploring Opportunities, Challenges, and Applications