

Blockchain In Commercial Real Estate The Future Is Here

Blockchain is transforming business. What's your strategy? Leaders of forward-thinking organizations are exploring how blockchain can transform the way they create and seek value. Whether it's used to streamline multiparty processes, create and trade new assets, or leverage artificial intelligence and the internet of things, blockchain enables entirely new business opportunities. This is just the start. As blockchain becomes more widely adopted, it has the potential to radically change the way companies and societies operate, as transformative a paradigm shift as the launch of the internet. The Real Business of Blockchain is one of the first books on this transformative technology written for business leaders. Authors David Furlonger and Christophe Uzureau--both of Gartner, the world-renowned research and advisory company--will help you: Assess how blockchain will impact your business Explore the value proposition that blockchain offers Make smart near- and midterm investments Position your organization in a new competitive landscape Timely, visionary, and accessible, The Real Business of Blockchain cuts through the hype and helps you unlock the vast capabilities of this powerful and potentially world-changing technology.

Can blockchain solve your biggest business problem? While the world is transfixed by bitcoin mania, your competitors are tuning out the noise and making strategic bets on blockchain. Your rivals are effortlessly tracking every last link in their supply chains. They're making bureaucratic paper trails obsolete while keeping their customers' data safer and discovering

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new ways to use this next foundational technology to sustain their competitive advantage. What should you be doing with blockchain now to ensure that your business is poised for success? "Blockchain: The Insights You Need from Harvard Business Review" brings you today's most essential thinking on blockchain, explains how to get the right initiatives started at your company, and prepares you to seize the opportunity of the coming blockchain wave. Business is changing. Will you adapt or be left behind? Get up to speed and deepen your understanding of the topics that are shaping your company's future with the Insights You Need from Harvard Business Review series. Featuring HBR's smartest thinking on fast-moving issues--blockchain, cybersecurity, AI, and more--each book provides the foundational introduction and practical case studies your organization needs to compete today and collects the best research, interviews, and analysis to get it ready for tomorrow. You can't afford to ignore how these issues will transform the landscape of business and society. The Insights You Need series will help you grasp these critical ideas--and prepare you and your company for the future.

Die Digitalisierungswelle hat die Immobilienbranche erfasst und kaum ein Bereich wird davon unberührt bleiben. Diese Entwicklung wird von "PropTechs" flankiert, eine Wortzusammensetzung aus "Property" und "Technology", die Unternehmen beschreibt, die softwarebasierte Immobilien-Lösungen anbieten. Diese Unternehmen kommen zumeist aus der Immobilien-, Bau- oder Finanzbranche und richten ihre Leistungen sowohl an Unternehmen (B2B) als auch an Endverbraucher (B2C). Sie verfolgen dabei das Ziel der Effizienzsteigerung bestehender Prozesse und/oder die Einführung neuer Technologien und Geschäftsmodelle. Es geht dabei in erster Linie nicht um Disruption, sondern um Innovation.

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Die spannende Frage ist, wie man sich als Unternehmen diesen, mit rasanter Geschwindigkeit ankommenden Entwicklungen stellt und für sein Geschäftsfeld nutzen kann. Das Buch will diese Trends entlang der Wertschöpfungskette der Immobilienwirtschaft aufgreifen und beispielhaft vorstellen.

Blockchain and artificial intelligence are perhaps the two most significant disruptive technologies this century and both will significantly rewire the world of global financial markets and the world in which we live. While blockchain offers a number of significant advantages over traditional forms of finance including lower cost and massive increases in operational efficiencies of traded markets, property records and a whole host of transaction processes, artificial intelligence is moving fast from basic structured machine learning doing menial yet important big data tasks like credit card fraud detection to predictive analysis and real-time real-world risk management and investment decision making. There is still a lot of confusion in the market about cryptocurrencies, bitcoin and the underlying blockchain technology. Blockchain and Artificial Intelligence highlights the underlying technologies of blockchain and the differences between cryptocurrencies and blockchain financial applications. It explores the current AI offerings and gives a vision of the fast-moving developments in this area including the many solutions that are expected to revolutionize the way financial and commodity markets will operate in the future.

"This book investigates the blockchain technology, its adoption and effectiveness in banking and other industry, and in general, for IoT based applications"--

Online business has been growing progressively and has become the major business platform within the past two decades. The internet bulldozed the development of new business models

and innovations that substantially changed the way businesses run today. This led to a growth of advanced technologies used in online business such as data analytics, machine learning, and artificial intelligence. With higher internet connectivity and the exponential growth of mobile devices, shopping processes and behaviors were significantly affected as people are consistently connected online. Consumers can easily gain helpful product information and retail competitor information in myriad online channels. This led to a profound effect on businesses where they began to invest in new technologies and business practices that aim to align with the effects of globalization. Given the rapid technology advancements, both businesses and customers are presently experiencing an exponential upsurge in the implementation of new business processes and models. Impact of Globalization and Advanced Technologies on Online Business Models explores the ever-changing field of running an online business and presents the current issues and challenges in online business triggered by global shifts in the online environment and technological changes. The chapters draw from a wide range of technologies used in today's digital marketplace as well as recent development and empirical researches on online consumer behavior. As such, this book aims to contribute new dimensions in managing advancements in online business triggered by global and technology transformation. This book is ideal for executives, managers, IT consultants, practitioners, researchers, academicians, and students interested in globalization and the new technologies affecting online business models.

The ultimate guide to the NFT revolution: How non-fungible tokens are poised to transform the digital world. Non-fungible tokens, or NFTs, are the most important digital innovation since the creation of blockchain and cryptocurrency. NFTs share the best elements of both of these,

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while also representing an entirely new step forward for technology. But how did NFTs arise, how will they impact art and business in the decades to come, and—perhaps most importantly—how can savvy entrepreneurs position themselves today for success in the NFT-driven world of tomorrow? This guide by industry leader and entrepreneur Marc Beckman delves into the underpinnings of NFT technology in a way that makes the subject clear and comprehensible to the layman, while drawing on Marc's branding experience to explore exactly how NFTs are poised to change fashion, sport, fine art, and even social justice. In this book he explores how NFTs will create entirely new asset classes and investment possibilities, such as fractional ownership in dynamic works of art. And in doing so, he also tells the story of how he personally discovered and became entranced by this powerful new tool, and where he believes NFTs will take business and branding throughout the 21st century.

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

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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.

This book constitutes the proceedings of the satellite workshops held around the 18th International Conference on Applied Cryptography and Network Security, ACNS 2020, in Rome, Italy, in October 2020. The 31 papers presented in this volume were carefully reviewed and selected from 65 submissions. They stem from the following workshops: AIBlock 2020: Second International Workshop on Application Intelligence and Blockchain Security AIHWS 2020: First International Workshop on Artificial Intelligence in Hardware Security AIoTS 2020: Second International Workshop on Artificial Intelligence and Industrial Internet-of-Things Security Cloud S&P 2020: Second International Workshop on Cloud Security and Privacy SCI 2020: First International Workshop on Secure Cryptographic Implementation SecMT 2020: First International Workshop on Security in Mobile Technologies SiMLA 2020: Second International Workshop on Security in Machine Learning and its Applications

Consolidating existing knowledge in Design Science, this book proposes a new research method to aid the exploration of design and problem solving within business, science and technology. It seeks to overcome a dichotomy that exists in the field between theory and practice to enable researchers to find solutions to problems, rather

than focusing on the explanation and exploration of the problems themselves. Currently, researches concentrate on to describing, exploring, explaining and predicting phenomena, and little attention is devoted to prescribing solutions. Herbert Simon proposes the need to develop a Science of the Artificial (Design Science), arguing that our reality is much more artificial than natural. However, the research conducted on the Design Science premises has so far been scattered and erratic in different fields of research, such as management, systems information and engineering. This book aims to address this issue by bringing these fields together and emphasising the need for solutions. This book provides a valuable resource to students and researchers of research methods, information systems, management and management science, and production and operations management.

This edited collection offers a number of contributions from leading scholars investigating Blockchain and its implications for business. Focusing on the transformation of the overall value chain, the sections cover the foundations of Blockchain, its drivers and barriers, business modelling and a range of examples from industry. Using a number of theoretical and methodological approaches, this innovative publication aims to further the cause of this ground-breaking technology and its use within information technology, supply chain and wider business management research. This book presents chapters from diverse range of authors on different aspects of how Blockchain and IoT are converging and the impacts of these developments. The book

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provides an extensive cross-sectional and multi-disciplinary look into this trend and how it affects artificial intelligence, cyber-physical systems, and robotics with a look at applications in aerospace, agriculture, automotive, critical infrastructures, healthcare, manufacturing, retail, smart transport systems, smart cities, and smart healthcare. Cases include the impact of Blockchain for IoT Security; decentralized access control systems in IoT; Blockchain architecture for scalable access management in IoT; smart and sustainable IoT applications incorporating Blockchain, and more. The book presents contributions from international academics, researchers, and practitioners from diverse perspectives. Presents how Blockchain and IoT are converging and the impacts of these developments on technology and its application; Discusses IoT and Blockchain from cross-sectional and multi-disciplinary perspectives; Includes contributions from researchers, academics, and professionals from around the world. This book presents the proceedings of the International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT) organized by PES College of Engineering in Mandya. Featuring cutting-edge, peer-reviewed articles from the field of electronics, computer science and technology, it is a valuable resource for members of the scientific research community.

This contributed volume discusses diverse topics to demystify the rapidly emerging and evolving blockchain technology, the emergence of integrated platforms and hosted third-party tools, and the development of decentralized applications for various business

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domains. It presents various applications that are helpful for research scholars and scientists who are working toward identifying and pinpointing the potential of as well as the hindrances to this technology.

Blockchain is a disruptive technology potentially impacting how economic transactions are recorded, stored, and verified. Despite such ramifications, there is a lack of literature discussing this from the accountant's perspective. Through real-world cases this book distills an abstract technology to relatable experiences for business professionals.

Cryptocurrency and blockchain are transforming industries. Real estate, conservative and slow-to-change, is ripe for this transformation. How can real estate investors take advantage of Bitcoin and blockchain to set themselves apart from the crowd and get ahead of the game? Cryptocurrency and Real Estate frames the discussion as: Transforming Deal-making, Transforming Ownership, and Transforming Management. It provides detailed strategies for each of these transformations and explores advantages and disadvantages. What will you learn in Cryptocurrency and Real Estate?

- Buying real estate with cryptocurrency - how to structure deals and overcome obstacles
- Tokenizing real estate to raise money for your deals
- Using cryptocurrency in your real estate business
- Leveraging smart contracts to speed negotiations
- Transitioning real estate records to the blockchain
- Understanding barter cryptocurrency and its unique niche

This is the one book that thoroughly explores the synergies

between real estate investing and cryptocurrency. A must read for investors who want additional strategies in either investment category.

This book focuses on the building of a crypto economy as an alternative economic space and discusses how the crypto economy should be governed. The crypto economy is examined in its productive and financialised aspects, in order to distil the need for governance in this economic space. The author argues that it is imperative for regulatory policy to develop the economic governance of the blockchain-based business model, in order to facilitate economic mobilisation and wealth creation. The regulatory framework should cater for a new and unique enterprise organisational law and the fund-raising and financing of blockchain-based development projects. Such a regulatory framework is crucially enabling in nature and consistent with the tenets of regulatory capitalism. Further, the book acknowledges the rising importance of private monetary orders in the crypto economy and native payment systems that do not rely on conventional institutions for value transfer. A regulatory blueprint is proposed for governing such monetary orders as 'commons' governance. The rise of Decentralised Finance and other financial innovations in the crypto economy are also discussed, and the book suggests a framework for regulatory consideration in this dynamic landscape in order to meet a balance of public interest objectives and private interests. By setting out a reform agenda in relation to economic and financial governance in the crypto economy, this forward-looking work argues for the extension of 'regulatory capitalism' to this perceived 'wild west' of an alternative economic space. It advances the message that an innovative regulatory agenda is needed to account for the economically disruptive and technologically transformative developments brought about by the crypto economy.

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Focusing on different tools, platforms, and techniques, *Blockchain and the Smart City: Infrastructure and Implementation* uses case studies from around the world to examine blockchain deployment in diverse smart city applications. The book begins by examining the fundamental theories and concepts of blockchain. It looks at key smart cities' domains such as banking, insurance, healthcare, and supply chain management. It examines Using case studies for each domain, the book looks at payment mechanisms, fog/edge computing, green computing, and algorithms and consensus mechanisms for smart cities implementation. It looks at tools such as Hyperledger, Ethereum, Corda, IBM Blockchain, Hydrachain, as well as policies and regulatory standards, applications, solutions, and methodologies. While exploring future blockchain ecosystems for smart and sustainable city life, the book concludes with the research challenges and opportunities academics, researchers, and companies in implementing blockchain applications. Independently organized chapters for greater readability, adaptability, and flexibility Examines numerous issues from multiple perspectives and academic and industry experts Explores both advances and challenges of cutting-edge technologies Coverage of security, trust, and privacy issues in smart cities This book addresses challenges that new technologies and the big data revolution pose to existing regulatory and legal frameworks. The volume discusses issues such as blockchain and its implications for property transactions and taxes, three (or four) dimensional title registration, land use and urban planning in the age of big data, and the future of property rights in light of these changes. The book brings together an interdisciplinary collection of chapters that revolve around the potential influence of disruptive technologies on existing legal norms and the future development of real estate markets. The book is divided into five parts.

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Part I presents a survey of the current available research on blockchain and real estate. Part II provides a background on property law for the volume, grounding it in fundamental theory. Part III discusses the changing landscapes of property rights while Part IV debates the potential effects of blockchain on land registration. Finally the book concludes with Part V, which is devoted to new technological applications relevant to real estate. Providing an interdisciplinary perspective on emerging technologies that have the potential to disrupt the real estate industry and the regulation of it, this book will appeal to a broad audience, consisting of scholars, policy-makers, practitioners, and students, interested in real estate, law, economics, blockchain, and technology policy.

Since Bitcoin appeared in 2009, the digital currency has been hailed as an Internet marvel and decried as the preferred transaction vehicle for all manner of criminals. It has left nearly everyone without a computer science degree confused: Just how do you “mine” money from ones and zeros? The answer lies in a technology called blockchain, which can be used for much more than Bitcoin. A general-purpose tool for creating secure, decentralized, peer-to-peer applications, blockchain technology has been compared to the Internet itself in both form and impact. Some have said this tool may change society as we know it. Blockchains are being used to create autonomous computer programs known as “smart contracts,” to expedite payments, to create financial instruments, to organize the exchange of data and information, and to facilitate interactions between humans and machines. The technology could affect governance itself, by supporting new organizational structures that promote more democratic and participatory decision making. Primavera De Filippi and Aaron Wright acknowledge this potential and urge the law to catch up. That is because disintermediation—a blockchain’s

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greatest asset—subverts critical regulation. By cutting out middlemen, such as large online operators and multinational corporations, blockchains run the risk of undermining the capacity of governmental authorities to supervise activities in banking, commerce, law, and other vital areas. De Filippi and Wright welcome the new possibilities inherent in blockchains. But as Blockchain and the Law makes clear, the technology cannot be harnessed productively without new rules and new approaches to legal thinking.

Real Estate Crowdfunding: An Insider's Guide to Investing Online introduces the reader to basic real estate investment concepts and then takes a deep dive into how to invest passively yet wisely in real estate syndications. This book will teach the reader how to:

- invest in crowd-funded real estate syndicates
- understand key financial concepts used in the industry
- diversify their investment portfolios
- read between the lines of investment contracts
- maximize profit while minimizing losses

This book is a guide to the foundational financial concepts upon which all real estate projects are based and explains the language of real estate from an insider's perspective. It provides a road map of what to watch for and how to win at the game of passive real estate investing.

Altcoins, an abbreviation of alternative coins, are any other cryptocurrency that is not Bitcoin. Since Satoshi Nakamoto unveiled Bitcoin in 2008 we've seen dozens of promising currencies emerge. This alternative coins have been seeing such meteoric rises that it is leaving the financial sector speechless. Cryptocurrency is resulting in a change to how the next generation envisions their retirement. Cryptocurrency has made saving money into a game for millennials. These returns are just for the young. Anyone can come in and invest in this market. The true value behind this market is the underlying technology known as the Blockchain. In this book we

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will take a deep looker to what is the blockchain and its relationship with these coins. Reading this book will cover: -Understanding Cryptocurrencies from Bitcoins to Altcoins. -Future applications and explanations of the Blockchain. -Safely securing you cryptocurrencies in cold storage. -ICO's, exchanges, cashing out, buying and selling tokens. -The inevitable direction that cryptocurrency is going too. This book is directed towards those who have heard of Bitcoin in passing, have a vague understanding of what it is, and are looking to know more about this popular opportunity. After reading this book you'll be an expert in your community and will be able to hold yourself in crypto conversations which are happening more often by the day. Bitcoin is first to market but just because you are the first does not make you the best. The alternative coins saw mainstream attention in the late 2017 and will see historic rises in the years to come.

Due diligence is the bedrock of real estate deals, regardless of the volume of transaction. This book presents a comprehensive guide to understanding and implementing due diligence and making an accurate assessment of the risks. While this process has become a “no-brainer” for investment professionals, the market standard on this essential topic has not yet been laid out in a comprehensive form that covers all the major aspects of real estate due diligence: legal, tax, financial and technical issues. This book fulfils that need, and gives it a form that can be used for German, European, or even international transactions. Written in a reader-friendly fashion, the easily navigable chapters are organized into the four due diligence dimensions, with ample examples and key takeaways. Be they real estate investors, or a management students specializing in the asset class, this book is a core resource for anyone wanting to get to grips with due diligence.

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Ride the Trends! Entrepreneurship and real estate investments coin millionaires and billionaires around the globe. But which socio-economic and global trends affect a real estate investor most? What do investors need to know about them? And how do these trends empower investors to succeed in investing in real estate? If you want answers to questions as these, look no further. *How Trends Make You A Smarter Investor* gives the real estate investor a leg up in the marketplace and in life. It explores how real estate investors and entrepreneurs can capitalize on current and emerging trends. Both novice and veteran investors benefit in numerous ways when they generate profits and exert positive impacts on communities. The author imparts vital information, culled from two decades of experience as a real estate professional and a real estate investor. She offers powerful vantage points about trends, lays the foundations for investor success, and offers passive and active ways to invest in real estate. The book's actionable advice gets investors started, regardless of experience or financial level. Investors and entrepreneurs learn to: * Cash In On Trends * Add Value and Win Big * Solve Problems, Do Good, and Make Money * Identify the Right Investments * Minimize Risk * Avoid Common Investing Pitfalls * Use Financial Smarts And much, much more... Study the Trends. Ride them. Grow Your Income And Your Business. Read this book and embark on your life as a real estate investor today!

One of the testimonials for *How Trends Make You A Smarter Investor* reads: A beautiful little book that eschews risky get-rich-fast schemes in favor of a sustainable long-term approach to wealth accumulation through real estate investing. I am 53 now but I wish I had read this book when I was much younger. It would have saved me a lot of pain and loss along the way - financial and otherwise.... The

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book's pages are packed with wisdom and insights that apply not only to real estate investing but to life. Thanks to Gabrielle Dahms for putting together such a gem of a book! -- Calvin Burnes, real estate investor

Volume I in The Real

Estate Investor Manuals Series.

This book explores the main challenges and trends related to the use of blockchain technology for digital business innovation with the aim of providing practitioners with stimulating insights and ideas. Readers will find a unified survey of current scientific work on blockchain and related phenomena, such as bitcoin, from a range of perspectives, including information systems, technology management, innovation research, computer science, and engineering. In this way, the book links research and industry practices suitable for use by practitioners in their day-to-day activities and also provides an update on what academia may offer in terms of industry proposals. The contents are divided into three parts. After discussion of blockchain technology and management, including impacts on value chains and systems, governance, and security issues, the bitcoin phenomenon and main technological trends in the use of blockchain are addressed. The final part presents examples of business innovation using blockchain that are drawn from across the globe. Throughout, the author adopts a methodologically rigorous approach while ensuring that the text is readily understandable for readers, regardless of their degree of acquaintance with blockchain.

This book introduces three innovative concepts and associated financial instruments with the potential to revolutionise real estate finance. The factorisation of commercial real estate with factor-based real estate derivatives is the first concept analysed in this book. Methodological

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issues pertaining to factors in real estate risk analysis are covered in detail with in-depth academic reference. The book then analyses the digitalisation of commercial real estate. The environment in which buildings operate is changing fast. Cities which used to be made up of inanimate architectural structures are growing digital skins and becoming smarter. Smart technologies applied to the built environment are fundamentally changing buildings' role in cities and their interactions with their occupants. The book introduces the concept of smart space and analyses the emergence of 'digital rights' or property rights for smart buildings in smart environments. It proposes concepts and methods for identifying, pricing, and trading these new property rights which will dominate commercial real estate in the future. Finally, the tokenisation of commercial real estate is explored. Sometimes described as an alternative to securitisation, tokenisation is a new tool in financial engineering applied to real assets. The book suggests two innovative applications of tokenisation: private commercial real estate index tokenisation and data tokens for smart buildings. With factorisation, digitalisation, and tokenisation, commercial real estate is at the forefront of innovations. Real estate's unique characteristics, stemming from its physicality, trigger new ways of thinking which might have a profound impact on other asset classes by paving the way for micro markets. Factor-based property derivatives, digital rights, and tokens embody how commercial real estate can push the boundaries of modern capitalism and, in doing so, move at the centre of tomorrow's smart economies. This book is essential reading for all real estate, finance, and smart technology researchers and interested professionals.

From past decades, Computational intelligence embraces a number of nature-inspired computational techniques which mainly encompasses fuzzy sets, genetic algorithms, artificial

neural networks and hybrid neuro-fuzzy systems to address the computational complexities such as uncertainties, vagueness and stochastic nature of various computational problems practically. At the same time, Intelligent Control systems are emerging as an innovative methodology which is inspired by various computational intelligence process to promote a control over the systems without the use of any mathematical models. To address the effective use of intelligent control in Computational intelligence systems, International Conference on Intelligent Computing, Information and Control Systems (ICICCS 2019) is initiated to encompass the various research works that helps to develop and advance the next-generation intelligent computing and control systems. This book integrates the computational intelligence and intelligent control systems to provide a powerful methodology for a wide range of data analytics issues in industries and societal applications. The recent research advances in computational intelligence and control systems are addressed, which provide very promising results in various industry, business and societal studies. This book also presents the new algorithms and methodologies for promoting advances in common intelligent computing and control methodologies including evolutionary computation, artificial life, virtual infrastructures, fuzzy logic, artificial immune systems, neural networks and various neuro-hybrid methodologies. This book will be pragmatic for researchers, academicians and students dealing with mathematically intransigent problems. It is intended for both academicians and researchers in the field of Intelligent Computing, Information and Control Systems, along with the distinctive readers in the fields of computational and artificial intelligence to gain more knowledge on Intelligent computing and control systems and their real-world applications. This handbook equips academics, practitioners, and students with an understanding of the

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cutting-edge developments and applications of emerging blockchain technology. Covering the basic concepts while showcasing practical applications in intricate real-world situations, readers benefit from a useful balance of detailed and user-friendly coverage.

The Industry 4.0 revolution is changing the world around us. Artificial intelligence and machine learning, automation and robotics, big data, Internet of Things, augmented reality, virtual reality, and creativity are the tools of Industry 4.0. Improved collaboration is seen between smart systems and humans, which merges humans' critical and cognitive thinking abilities with highly accurate and fast industrial automation. Securing IoT in Industry 4.0 Applications with Blockchain examines the role of IoT in Industry 4.0 and how it can be made secure through various technologies including blockchain. The book begins with an in-depth look at IoT and discusses applications, architecture, technologies, tools, and programming languages. It then examines blockchain and cybersecurity, as well as how blockchain achieves cybersecurity. It also looks at cybercrimes and their preventive measures and issues related to IoT security and trust. Features An overview of how IoT is used to improve the performance of Industry 4.0 systems The evolution of the Industrial Internet of Things (IIoT), its proliferation and market share, and some examples across major industries An exploration of how smart farming is helping farmers prevent plant disease The concepts behind the Internet of Nano Things (IoNT), including the nanomachine and nanonetwork architecture and nano-communication paradigms A look at how blockchains can enhance cybersecurity in a variety of applications, including smart contracts, transferring financial instruments, and Public Key Infrastructure An overview of the structure and working of a blockchain, including the types, evolution, benefits, and applications of blockchain to industries A framework of technologies designed to shield

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networks, computers, and data from malware, vulnerabilities, and unauthorized activities An explanation of the automation system employed in industries along with its classification, functionality, flexibility, limitations, and applications

This volume contains fourteen articles split across four parts, exploring the debate around the topics of fintech, AI, blockchain, and cryptocurrency. Featuring a cast of global contributors, this is an unmissable volume exploring the most current research on digital innovation in the financial and business worlds.

'A masterful narration on the digitization of property in China.' Tan Yinglan Founding Managing Partner Insignia Ventures Partners, Singapore'...captures the fascinating story of 'smart city initiatives' and tells you all you need to know. 'Ben Shenglin Professor & Dean International Business School Zhejiang University, Hangzhou'...smartly combines economics, geo-politics, finance and real estate. 'Joshua Varghese Founding Partner, Axia Real Assets, Toronto Long-planned advances in China — in 5G, blockchain, central bank coins, and SME superapps — have coalesced into a new world of digitized, tokenized, and tradable assets. New digital mega-projects like the Blockchain Service Network, smart cities, and new foreign exchange digital rails are animating physical assets: offices, warehouses, homes, and farms. Powered by a network of sensors, AI, and distributed trust, property has digitized wings. The resulting inflow of data from every part of the 'built' world will create new industries, uproot traditional finance, and transform cities. The global trade war is not just a re-ordering of technology: it's a re-ordering of cities. Nations which export this digital technology first will alter the digital fabric of the developing world. A digital Non-Aligned Movement is afoot! One way for the US to catch up is public-private partnerships between Silicon Valley and DC — or just 'copy' China. This book

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explores the many people and companies, large and small, which are blazing new trails in China's 'Internet of Everything' to transform the way we live, buy, and move.

This innovative and original book explores the relationship between blockchain and antitrust, highlighting the mutual benefits that stem from cooperation between the two and providing a unique perspective on how law and technology could cooperate.

In 1995, the term "disruptive innovation" was coined to describe innovations that disrupt and threaten existing markets and consumer habits. Since then, we've played witness to how new companies have altered, and threatened, key industries such as hospitality and the taxi industry. These articles explore the growth of two of the most prominent "disruptive" tech companies, Uber and Airbnb, and how competitors and regulators have responded to the changing tides.

Become a Blockchain developer and design, build, publish, test, maintain and secure scalable decentralized Blockchain projects using Bitcoin, Ethereum, NEO, EOS and Hyperledger. This book helps you understand Blockchain beyond development and crypto to better harness its power and capability. You will learn tips to start your own project, and best practices for testing, security, and even compliance. Immerse yourself in this technology and review key topics such as cryptoeconomics, coding your own Blockchain P2P network, different consensus mechanisms, decentralized ledger, mining, wallets, blocks, and transactions. Additionally, this book provides you with hands-on practical tools and examples for creating smart contracts and dApps for

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different blockchains such as Ethereum, NEO, EOS, and Hyperledger. Aided by practical, real-world coding examples, you'll see how to build dApps with Angular utilizing typescript from start to finish, connect to the blockchain network locally on a test network, and publish on the production mainnet environment. Don't be left out of the next technology revolution – become a Blockchain developer using The Blockchain Developer today. What You'll Learn Explore the Blockchain ecosystem is and the different consensus mechanisms Create miners, wallets, transactions, distributed networks and DApps Review the main features of Bitcoin: Ethereum, NEO and EOS, and Hyperledger are Interact with popular node clients as well as implementing your own Blockchain Publish and test your projects for security and scalability Who This Book Is For Developers, architects and engineers who are interested in learning about Blockchain or implementing Blockchain into a new greenfield project or integrating Blockchain into a brownfield project. Technical entrepreneurs, technical investors or even executives who want to better understand Blockchain technology and its potential. The world of cryptocurrencies and blockchains was initially viewed as a niche space of little interest to mainstream business and finance sectors. With major banks now licensed to provide cryptocurrency custody solutions, and everyone from Facebook to governments using the underlying technology to create their own digital currencies, this has undoubtedly changed. The Cryptocurrency Revolution explains the most important takeaways from the continued growth of digital currencies and blockchain technology

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and explores the transformative possibilities of borderless payments, decentralized finance ('DeFi') and machine-to-machine transactions. Written in jargon-free and accessible language, this book examines the key value proposition of Bitcoin and other cryptocurrencies and how decentralized technologies could enable banks and financial institutions to become more efficient. It looks at the potential impact of company-backed virtual currencies (such as Facebook's Libra) and how governments and regulators around the world are reacting to these innovations. With discussion of the principles of tokenomics and the difference between public and private blockchains, *The Cryptocurrency Revolution* is the essential guide for those wishing to understand the threats and opportunities of the changing world of payments and finance.

Africa's Development Dynamics uses lessons learned in the continent's five regions – Central, East, North, Southern and West Africa – to develop policy recommendations and share good practices. Drawing on the most recent statistics, this analysis of development dynamics attempts to help African leaders reach the targets of the African Union's Agenda 2063 at all levels: continental, regional, national and local.

This book features selected papers presented at the 2nd International Conference on Advanced Computing Technologies and Applications, held at SVKM's Dwarkadas J. Sanghvi College of Engineering, Mumbai, India, from 28 to 29 February 2020. Covering recent advances in next-generation computing, the book focuses on recent developments in intelligent computing, such as linguistic computing, statistical

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computing, data computing and ambient applications.

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