

Handbook Of Digital Currency Bitcoin Innovation Financial Instruments And Big Data

Handbook Of Digital Currency Bitcoin Innovation Financial Instruments And Big Data Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has been much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Handbook Of Digital Currency Bitcoin Innovation Financial Instruments And Big Data**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall affect readers.

Cryptocurrency and Public Policy Donavon

Johnson 2022-11-04 Proponents of cryptocurrency have argued it has the potential to drive economic prosperity and to help reimagine social benefits in many spaces across the world. However, as the knowledge and use of cryptocurrency increases, so do questions about trust, identity, privacy, and security. This new book connects the literature on public policy and cryptocurrency, asking: What are the governance and democracy implications of the rise in cryptocurrency use? Beginning with a conceptual overview of cryptocurrency and how governmental actions (or inaction) led to its creation, author Donovan Johnson argues that symbiotic relationships can and do exist among cryptocurrency, democracy, and governance in the public policy/administration domain.

Principles such as equity and inclusion, efficiency and effectiveness, accountability, and quality of life are explored as conduits through which cryptocurrency interfaces with public policy, democracy, and good governance. This informative and insightful book covers a range of public policy and public administration issues, offering readers an understanding of how cryptocurrency intersects with democracy, governance, fiscal and monetary policies, economic growth, corruption, and privacy.

Cryptocurrency and Public Policy will be of interest to students and scholars of public policy and administration, finance, economics, and business.

Cryptocurrencies and Blockchain Technology Applications Gulshan Shrivastava 2020-05-26 As we enter the Industrial Revolution 4.0, demands for an increasing degree of trust and privacy protection continue to be voiced. The development of blockchain technology is very important because it can help frictionless and transparent financial transactions and improve the business experience, which in turn has far-reaching effects for economic, psychological, educational and organizational improvements in the way we work, teach, learn and care for ourselves and each other. Blockchain is an eccentric technology, but at the same time, the least understood and most disruptive technology of the day. This book covers the latest technologies of cryptocurrencies and blockchain technology and their applications. This book discusses the blockchain and cryptocurrencies related issues and also explains how to provide the security differently through an algorithm, framework, approaches, techniques and mechanisms. A comprehensive understanding of what blockchain is and how it works, as well as insights into how it will affect the future of your organization and industry as a whole and how to

integrate blockchain technology into your business strategy. In addition, the book explores the blockchain and its with other technologies like Internet of Things, big data and artificial intelligence, etc.

Regulating Blockchain Philipp Hacker
2019-08-01 Less than a decade after the Financial Crisis, we are witnessing the fast emergence of a new financial order driven by three different, yet interconnected, dynamics: first, the rapid application of technology - such as big data, machine learning, and distributed computing - to banking, lending, and investing, in particular with the emergence of virtual currencies and digital finance; second, a disintermediation fuelled by the rise of peer-to-peer lending platforms and crowd investment which challenge the traditional banking model and may, over time, lead to a transformation of the way both retail and corporate customers bank; and, third, a tendency of de-bureaucratisation under which new platforms and technologies challenge established organisational patterns that regulate finance and manage the money supply. These changes are to a significant degree driven by the development of blockchain technology. The aim of this book is to understand the technological and business potential of the blockchain technology and to reflect on its legal challenges. The book mainly focuses on the challenges blockchain technology has so far faced in its first application in the areas of virtual money and finance, as well as those that it will inevitably face (and is partially already facing, as the SEC Investigative Report of June 2017 and an ongoing SEC securities fraud investigation show) as its domain of application expands in other fields of economic activity such as smart contracts and initial coin offerings. The book provides an unparalleled critical analysis of the disruptive potential of this technology for the economy and the legal system and contributes to current thinking on the role of law in harvesting and shaping innovation.

[Proceedings of the 2022 International Conference on Bigdata Blockchain and Economy Management \(ICBBEM 2022\)](#) Daowen Qiu 2022-12-28 This is an open access book. As a leading role in the global megatrend of scientific innovation, China has been

creating a more and more open environment for scientific innovation, increasing the depth and breadth of academic cooperation, and building a community of innovation that benefits all. These endeavors have made new contribution to globalization and creating a community of shared future. With the rapid development of modern economic society, in the process of economic management, informatization has become the mainstream of economic development in the future. At the same time, with the emergence of advanced management technologies such as blockchain technology and big data technology, real market information can be quickly obtained in the process of economic management, which greatly reduces the operating costs of the market economy and effectively enhances the management level of operators, thus contributing to the sustained, rapid and healthy development of the market economy. Under the new situation, the innovative application of economic management research is of great practical significance. 2022 International Conference on Bigdata, Blockchain and Economic Management (ICBBEM 2022) will be held on March 25-27, 2022 in Wuhan, China. ICBBEM 2022 will focus on the latest fields of Bigdata, Blockchain and Economic Management to provide an international platform for experts, professors, scholars and engineers from universities, scientific institutes, enterprises and government-affiliated institutions at home and abroad to share experiences, to expand professional fields, to exchange new ideas face to face, to present research results, and to discuss the key challenging issues and research directions facing the development of this field, with a view to promoting the development and application of theories and technologies in universities and enterprises.

Recent Central Bank Digital Currency Developments in Asia and Their Implications Asian Development Bank 2023-08-01 This publication analyzes the evolution of Central Bank Digital Currencies (CBDC) in Asia and the Pacific, assesses their potential risks and technical challenges, and explores their potential to improve cross-border payments and financial inclusion. Ahead of the launch of any large-scale

Asian CBDC, it details various models and explores how Cambodia, the People's Republic of China, Singapore, and Thailand are taking the lead. Outlining global developments and emerging trends, it shows why a robust digital infrastructure, strong public-private collaboration, and fintech literacy are central to ensuring CBDCs help drive the transition to a digital economy.

Financial Technology and the Law Doron Goldbarsht 2022-02-04 Blockchains and cryptocurrencies, open banking, virtual assets, and artificial intelligence have become the buzzword of this decade. This book focuses on these 'disruptive' financial technologies that provide alternatives to the traditional financial services typically offered by regulated financial institutions. Financial technologies are characterized by the innovative ways in which they initiate, support or extend traditional financial services or offer alternative financial pathways and products. However, these financial technologies also pose money laundering and terrorist and proliferation financing as well as cyber security risks that require mitigation. This edited volume addresses a range of regulatory and enforcement challenges related to financial technology and financial crime. The book responds to the United Nations' Sustainable Development Goals, in particular in relation to economic development, employment, national security, law enforcement and social well-being. Fostering responsible financial innovation promotes long-term economic growth, inclusion, and improved living standards. This book explores how to promote financial innovation while mitigating risks in a way that ensures financial prosperity and social inclusion.

Cryptocurrency Transaction Analysis From a Network Perspective Zhong-Yuan Zhang 2022-08-19

The Cambridge Handbook of Lawyering in the Digital Age Larry A. DiMatteo 2021-11-25 With increasing digitalization and the evolution of artificial intelligence, the legal profession is on the verge of being transformed by technology (legal tech). This handbook examines these developments and the changing legal landscape by providing perspectives from multiple interested

parties, including practitioners, academics, and legal tech companies from different legal systems. Scrutinizing the real implications posed by legal tech, the book advocates for an unbiased, cautious approach for the engagement of technology in legal practice. It also carefully addresses the core question of how to balance fears of industry takeover by technology with the potential for using legal tech to expand services and create value for clients. Together, the chapters develop a framework for analyzing the costs and benefits of new technologies before they are implemented in legal practice. This interdisciplinary collection features contributions from lawyers, social scientists, institutional officials, technologists, and current developers of e-law platforms and services.

Banking Law Andreas Kokkinis 2021-03-17 Banking regulation and the private law governing the bank-customer relationship came under the spotlight as a result of the global financial crisis of 2007-2009. More than a decade later UK, EU and international regulatory initiatives have transformed the structure, business practices, financing models and governance of the banking sector. This authoritative text offers an in-depth analysis of modern banking law and regulation, while providing an assessment of its effectiveness and normative underpinnings. Its main focus is on UK law and practice, but where necessary it delves into EU law and institutions, such as the European Banking Union and supervisory role of the European Central Bank. The book also covers the regulation of bank corporate governance and executive remuneration, the promises and perils of FinTech and RegTech, and the impact of Brexit on UK financial services. Although detailed, the text remains easy to read and reasonably short; pedagogic features such as a glossary of terms and practice questions for each chapter are intended to facilitate learning. It is a useful resource for students and scholars of banking law and regulation, as well as for regulators and other professionals who are interested in reading a precise and evaluative account of this evolving area of law.

Handbook of Blockchain, Digital Finance, and Inclusion, Volume 1 David LEE Kuo Chuen

2017-08-03 Handbook of Blockchain, Digital Finance, and Inclusion, Volume 1: Cryptocurrency, FinTech, InsurTech, and Regulation explores recent advances in digital banking and cryptocurrency, emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets. Contributors go beyond summaries of standard models to describe new banking business models that will be sustainable and will likely dictate the future of finance. The volume not only emphasizes the financial opportunities made possible by digital banking, such as financial inclusion and impact investing, but it also looks at engineering theories and developments that encourage innovation. Its ability to illuminate present potential and future possibilities make it a unique contribution to the literature. Explores recent advances in digital banking and cryptocurrency, emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

Halal Cryptocurrency Management Mohd Ma'Sum Billah 2019-06-18 The growth of Islamic finance today is significant, making it timely to meet the market demand across the world and particularly for Muslim countries by producing a cryptocurrency model under the Shari'ah ethical principles. This book addresses core components of cryptocurrency within the Maqasid al-Shari'ah in enabling students, academics, users, traders, issuers, promoters, facilitators, managers, regulators, decision makers, blockchain technology providers, financial authorities, and other relevant professionals to understand Shari'ah cryptocurrency and its practical mechanisms. Among the issues covered are corporate understanding, global phenomena and world view, the Shari'ah model, SWOT analysis, innovation, conventional practices and the Halaldichotomy, regulatory standards, blockchain and its technological paradigm, practicality,

establishment, and operational mechanisms, Zakat and Waqf through cryptocurrency, risk factors, and takaful solution. This book establishes a Halal alternative model of cryptocurrency management within the Maqasid al-Shari'ah to meet the contemporary global market demand.

Hybrid Intelligent Systems Ajith Abraham 2023-05-24 This book highlights the recent research on hybrid intelligent systems and their various practical applications. It presents 97 selected papers from the 22nd International Conference on Hybrid Intelligent Systems (HIS 2022) and 26 papers from the 18th International Conference on Information Assurance and Security, which was held online, from 13 to 15 December 2022. A premier conference in the field of artificial intelligence and machine learning applications, HIS-IAS 2022, brought together researchers, engineers and practitioners whose work involves intelligent systems, network security and their applications in industry. Including contributions by authors from over 35 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

Fintech with Artificial Intelligence, Big Data, and Blockchain Paul Moon Sub Choi 2021-03-08 This book introduces readers to recent advancements in financial technologies. The contents cover some of the state-of-the-art fields in financial technology, practice, and research associated with artificial intelligence, big data, and blockchain—all of which are transforming the nature of how products and services are designed and delivered, making less adaptable institutions fast become obsolete. The book provides the fundamental framework, research insights, and empirical evidence in the efficacy of these new technologies, employing practical and academic approaches to help professionals and academics reach innovative solutions and grow competitive strengths.

Opportunities and Challenges of Business 5.0 in Emerging Markets Dadwal, Sumesh 2023-03-21 It seems that when businesses were finally understanding, implementing, and getting

used to industry 4.0, the term 5.0 came about. Industry 5.0 takes human touch, innovation, and efficiency a step further in creating a turnaround strategy for corporate governance. This transformation has brought many questions to the minds of stakeholders such as when and why this happened. In order to explore the answers to these questions, further study is required to understand the prospects and challenges. Opportunities and Challenges of Business 5.0 in Emerging Markets discusses the present state and future outlooks of Business 5.0 and aims to achieve comprehensive insights on the implications of Business 5.0 in the emerging markets. The book also provides insights to marketers, entrepreneurs, and practitioners to unravel the opportunities and mitigate the challenges in the competitive world. Covering key topics such as big data, e-commerce, and value creation, this reference work is ideal for policymakers, business owners, managers, industry professionals, researchers, scholars, practitioners, academicians, instructors, and students.

AI and Big Data's Potential for Disruptive Innovation Strydom, Moses 2019-09-27 Big data and artificial intelligence (AI) are at the forefront of technological advances that represent a potential transformational mega-trend—a new multipolar and innovative disruption. These technologies, and their associated management paradigm, are already rapidly impacting many industries and occupations, but in some sectors, the change is just beginning. Innovating ahead of emerging technologies is the new imperative for any organization that aspires to succeed in the next decade. Faced with the power of this AI movement, it is imperative to understand the dynamics and new codes required by the disruption and to adapt accordingly. AI and Big Data's Potential for Disruptive Innovation provides emerging research exploring the theoretical and practical aspects of successfully implementing new and innovative technologies in a variety of sectors including business, transportation, and healthcare. Featuring coverage on a broad range of topics such as semantic mapping, ethics in AI, and big data governance, this book is ideally

designed for IT specialists, industry professionals, managers, executives, researchers, scientists, and engineers seeking current research on the production of new and innovative mechanization and its disruptions.

Financial Data Resampling for Machine Learning Based Trading Tomé Almeida Borges 2021-02-22 This book presents a system that combines the expertise of four algorithms, namely Gradient Tree Boosting, Logistic Regression, Random Forest and Support Vector Classifier to trade with several cryptocurrencies. A new method for resampling financial data is presented as alternative to the classical time sampled data commonly used in financial market trading. The new resampling method uses a closing value threshold to resample the data creating a signal better suited for financial trading, thus achieving higher returns without increased risk. The performance of the algorithm with the new resampling method and the classical time sampled data are compared and the advantages of using the system developed in this work are highlighted.

Money Has No Value Samuel A. Chambers 2023-10-02 We need a new theory of money. The still-dominant theory of money as taught in intro textbooks is 100+ years old, and for almost that long we have known that it's totally wrong. The best alternative are "heterodox" accounts developed in the 90s and 00s. These are indeed better overall descriptions of money, but they remain incomplete and inadequate: they rely too much on why the orthodoxy is wrong, thereby incorrectly assuming there is only one alternative (so-called heterodoxy). Money has no value develops a new (more subtle, more sophisticated) theory of money. It takes more seriously than any other work to date, the depth and seriousness of the fundamental claim that all money is credit. Money is not a thing, but a marker of a social relation of credit and debt between two parties. Money is not value itself; no form of money (as money) ever possesses any positive, intrinsic value. Second, the book shows that not only is all money credit, but that in an important theoretical sense, all credit is money to the extent any credit/debt between two parties has the potential to be transferred to another party (thereby

functioning as money). Finally, the book links this radical credit theory of money to today's concrete money practices: this includes global capital flows, national and international monetary policy, and most of all the daily turnover in the money markets. The book therefore develops the needed conceptual framework to ask questions like: what is going on with Bitcoin (much less GameStop) in 2021.

EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing

Anandakumar Haldorai 2019-10-18 This proceeding features papers discussing big data innovation for sustainable cognitive computing. The papers feature detail on cognitive computing and its self-learning systems that use data mining, pattern recognition and natural language processing (NLP) to mirror the way the human brain works. This international conference focuses on cognitive computing technologies, from knowledge representation techniques and natural language processing algorithms to dynamic learning approaches. Topics covered include Data Science for Cognitive Analysis, Real-Time Ubiquitous Data Science, Platform for Privacy Preserving Data Science, and Internet-Based Cognitive Platform. The EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing (BDCC 2018), took place on 13 - 15 December 2018 in Coimbatore, India.

Decentralized Finance Fouad Sabry 2021-11-25

What Is Decentralized Finance Decentralized Finance is a blockchain-based form of finance that does not rely on central financial intermediaries such as brokerages, exchanges, or banks to offer traditional financial instruments, and instead utilizes smart contracts on blockchains, the most common being Ethereum. There are some major advantages of using DeFi, including cost, speed and security. Anyone with an internet connection has access to blockchains and cryptocurrencies. Users are able to make trades and move their assets whenever they want without having to wait on bank transfers or pay bank fees. Decentralized finance is quickly rising as a more secure, more transparent, and more efficient alternative to traditional financial services. By eliminating the need for centralized financial institutions, we

create a more open and trustworthy financial system, and one that's far more accessible. Therefore, decentralized finance is a very near equivalent of an apocalyptic event for the traditional financial institutions. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Decentralized Finance Chapter 2: Blockchain Chapter 3: Smart Contract Chapter 4: Cryptocurrency Chapter 5: Virtual Currency Chapter 6: Central Bank Digital Currency Chapter 7: E-Democracy Chapter 8: Ethereum Chapter 9: Bitcoin Chapter 10: Diem (digital Currency) (II) Answering the public top questions about decentralized finance. (III) Real world examples for the usage of decentralized finance in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technology in each industry to have 360-degree full understanding of decentralized finance' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of decentralized finance. *Cryptocurrency Regulation* Immaculate Dadiso Motsi-Omoijiade 2022-06-17 This work argues that current cryptocurrency regulation, particularly in the areas of enforcement and compliance, is inadequate. It proposes reflexive regulation as an alternative approach. This book provides strategies for a reflexive regulation approach to cryptocurrencies, developed through the identification of the internal self-regulatory mechanisms of the cryptocurrency system. Apportioning blame for current problems to the regulators' failure to take into account the inherent technical features of cryptocurrencies, the work promotes reflexive regulation in which the law acts at a subsystem-specific level to install, correct, and redefine democratic self-regulatory mechanisms. It provides strategies for this approach, developed through the identification of the internal self-regulatory mechanisms of the cryptocurrency system. These are identified as imbedded in the technical functionality of computer code and consensus-based distributive governance mechanisms respectively. In addition to providing a technical, historical and legal overview of cryptocurrencies,

the book concludes by providing recommendations aimed at redirecting code and consensus towards achieving regulatory goals. In this way, it draws from the theory of reflexive law, in order to provide both a substantive and jurisprudential perspective on the regulation of cryptocurrencies and to illustrate how Financial Technology (Fintech) regulation can only be effective once regulators consider both the 'Fin' and the 'tech' in their regulatory approaches. The book will be of interest to researchers, academics and policy-makers working in the areas of Financial Regulation and Jurisprudence, Financial Crime, Banking Regulation, Information Systems, and Information Technology.

Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2

David LEE Kuo Chuen 2017-08-16 Handbook of Blockchain, Digital Finance, and Inclusion, Volume 2: ChinaTech, Mobile Security, and Distributed Ledger emphasizes technological developments that introduce the future of finance. Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow. The combination of studies on blockchain technologies and applications, regional financial inclusion movements, advances in Chinese finance, and security issues delivers a grand perspective on both changing industries and lifestyles. Written for students and practitioners, it helps lead the way to future possibilities. Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

Blockchain Economics and Financial Market Innovation

Umit Hacioglu 2019-12-03 This book discusses various aspects of blockchains in economic systems and investment strategies in crypto markets. It first addresses the topic from a conceptual and theoretical point of view, and then analyzes it from an assessment and investment angle. Further, it examines the opportunities and limitations of the taxation of crypto currency, as

well as the political implications, such as regulation of speculation with crypto currencies. The book is intended for academicians and students in the fields of economics and finance. **Digital Currency** Fouad Sabry 2021-11-25 What Is Digital Currency While all cryptocurrencies can be termed as digital currencies, the reverse is not true. Cryptocurrencies are managed by a computer algorithm, while digital currencies are backed by an authority Now, digital currencies exhibit properties like other currencies, but do not have a physical form like that of banknotes and coins. You can receive, transfer and / or exchange digital currency for another currency. For example, it can be used to pay for goods and services, in an online store. Cryptocurrencies like Bitcoin and Ethereum are pieces of computer code that are not managed by any authority. Creation, as well as use, is maintained through a distributed ledger, typically a blockchain, that serves as a public financial transaction database. So, cryptocurrencies typically use decentralized control where there is no presence of a third party to have authority over the investor. One of the most significant differences between digital currency and cryptocurrency is the underlying technology. Digital currency is a digital format of fiat money whereas cryptocurrencies are built on the blockchain. Cryptocurrencies are not under the control of any single entity. Digital currency, however, is under the direct control of the central bank. When it comes to digital currency, the issuing authority is of prime importance. How You Will Benefit (I) Insights, and validations about the following topics: Chapter 1: Digital Currency Chapter 2: Complementary Currency Chapter 3: Automated Clearing House Chapter 4: Cashless Catering Chapter 5: Cashless Society Chapter 6: Community Exchange System Chapter 7: Cryptocurrency Exchange Chapter 8: Cryptocurrency Wallet Chapter 9: Central Bank Digital Currency Chapter 10: Digital Wallet Chapter 11: E-Commerce Payment System Chapter 12: Electronic Money Association Chapter 13: Electronic Funds Transfer Chapter 14: Local Exchange Trading System Chapter 15: Payment System Chapter 16: Private Currency (II) Answering the public top questions about digital

currency. (III) Real world examples for the usage of digital currency in many fields. (IV) 17 appendices to explain, briefly, 266 emerging technology in each industry to have 360-degree full understanding of digital currency' technologies. Who This Book Is For Professionals, undergraduate and graduate students, enthusiasts, hobbyists, and those who want to go beyond basic knowledge or information for any kind of digital currency.

Big Data in Finance Thomas Walker 2022-10-03

This edited book explores the unique risks, opportunities, challenges, and societal implications associated with big data developments within the field of finance. While the general use of big data has been the subject of frequent discussions, this book will take a more focused look at big data applications in the financial sector. With contributions from researchers, practitioners, and entrepreneurs involved at the forefront of big data in finance, the book discusses technological and business-inspired breakthroughs in the field. The contributions offer technical insights into the different applications presented and highlight how these new developments may impact and contribute to the evolution of the financial sector. Additionally, the book presents several case studies that examine practical applications of big data in finance. In exploring the readiness of financial institutions to adapt to new developments in the big data/artificial intelligence space and assessing different implementation strategies and policy solutions, the book will be of interest to academics, practitioners, and regulators who work in this field.

Digital Currency: Breakthroughs in Research and Practice Management Association,

Information Resources 2018-07-06 Digital technology has revitalized the landscape of the global economy. As digital currency, such as bitcoin and IOTA, continues to become more prominent in society, conducting further research in this area is vital to promoting economic advancements. Digital Currency: Breakthroughs in Research and Practice is a critical source of academic knowledge on the use of computers, smartphones, and the internet to purchase goods

and services using virtual currency. The security and privacy aspects of using digital currency are also explored. Highlighting a range of pertinent topics such as electronic commerce, online transaction payment, and web-based electronic money, this book is an ideal reference source for business executives, financial analysts, business professionals, economists, IT professionals, and researchers interested in emerging trends in digital currency and finance.

Handbook of Blockchain, Digital Finance, and

Inclusion David LEE Kuo Chuen 2017-09-29

Handbook of Digital Finance and Financial Inclusion: Cryptocurrency, FinTech, InsurTech, Regulation, ChinaTech, Mobile Security, and Distributed Ledger explores recent advances in digital banking and cryptocurrency, emphasizing mobile technology and evolving uses of cryptocurrencies as financial assets. Contributors go beyond summaries of standard models to describe new banking business models that will be sustainable and likely to dictate the future of finance. The book not only emphasizes the financial opportunities made possible by digital banking, such as financial inclusion and impact investing, but also looks at engineering theories and developments that encourage innovation. Its ability to illuminate present potential and future possibilities make it a unique contribution to the literature. A companion Volume Two of The Handbook of Digital Banking and Financial Inclusion: ChinaTech, Mobile Security, Distributed Ledger, and Blockchain emphasizes technological developments that introduce the future of finance. Descriptions of recent innovations lay the foundations for explorations of feasible solutions for banks and startups to grow. The combination of studies on blockchain technologies and applications, regional financial inclusion movements, advances in Chinese finance, and security issues delivers a grand perspective on both changing industries and lifestyles. Written for students and practitioners, it helps lead the way to future possibilities. Explains the practical consequences of both technologies and economics to readers who want to learn about subjects related to their specialties Encompasses alternative finance, financial inclusion, impact

investing, decentralized consensus ledger and applied cryptography Provides the only advanced methodical summary of these subjects available today

Financial Inclusion and Digital Transformation Regulatory Practices in Selected SADC Countries

Howard Chitimira 2023-03-28 This book investigates the regulation and promotion of financial inclusion and provides a comparative analysis of the regulation, promotion and enforcement of the relevant laws in the SADC (in particular, South Africa, Namibia, Botswana and Zimbabwe), as well as the challenges of financial inclusion. In turn, it evaluates financial inclusion in the context of specific challenges faced by unbanked and underbanked customers, who are easy targets for cyber criminals because they tend to have lower levels of digital literacy. The book presents novel discussions that identify the challenges and flaws associated with the enforcement of financial inclusion laws and related measures intended to promote financial inclusion in the SADC region. This is primarily done in order to reveal the current strengths and weaknesses of financial inclusion laws in relation to certain aspects of the companies, securities and financial markets in the region. For example, there is no common financial inclusion instrument/law that is effectively and uniformly applied throughout the SADC. This has impeded the enforcement authorities' efforts to effectively combat financial exclusion across the region. The book is likely the most comprehensive study to date on the regulation and promotion of financial inclusion in the SADC region and fills a major gap in SADC and African legal jurisprudence. As such, it offers a valuable asset for policymakers, attorneys, bankers, securities (share) holders, and other market participants who deal with financial inclusion, as well as undergraduate and graduate students interested in the topic.

Smart Computing Applications in

Crowdfunding Bo Xing 2018-12-07 The book focuses on smart computing for crowdfunding usage, looking at the crowdfunding landscape, e.g., reward-, donation-, equity-, P2P-based and the crowdfunding ecosystem, e.g., regulator, asker, backer, investor, and operator. The

increased complexity of fund raising scenario, driven by the broad economic environment as well as the need for using alternative funding sources, has sparked research in smart computing techniques. Covering a wide range of detailed topics, the authors of this book offer an outstanding overview of the current state of the art; providing deep insights into smart computing methods, tools, and their applications in crowdfunding; exploring the importance of smart analysis, prediction, and decision-making within the fintech industry. This book is intended to be an authoritative and valuable resource for professional practitioners and researchers alike, as well as finance engineering, and computer science students who are interested in crowdfunding and other emerging fintech topics. The Emerald Handbook on Cryptoassets H. Kent Baker 2023-01-16 Bitcoin's introduction as the first cryptoasset in 2009 ushered in a new era, generating much interest, excitement, and growth. A cryptoasset is a digital asset using blockchain technology to regulate the generation of new units and verify and secure transactions. Enabling the Internet of Value Nikhil Vadgama 2022-01-11 This book shows how blockchain technology can transform the Internet, connecting global businesses in disruptive ways. It offers a comprehensive and multi-faceted examination of the potential of distributed ledger technology (DLT) from a new perspective: as an enabler of the Internet of Value (IoV). The authors discuss applications of blockchain technology to the financial services domain, e.g. in real estate, insurance and the emerging Decentralised Finance (DeFi) movement. They also cover applications to the media and e-commerce domains. DLT's impacts on the circular economy, marketplace, Internet of Things (IoT) and oracle business models are also investigated. In closing, the book provides outlooks on the evolution of DLT, as well as the systemic governance and privacy risks of the IoV. The book is intended for a broad readership, including students, researchers and industry practitioners.

Data Money Koray Caliskan 2023-08-01 The cryptocurrency world has transformed in a few short years from a niche subculture to a parallel

economic universe, reaching a market capitalization of more than \$2.5 trillion in 2021 before plummeting in 2022. For their advocates, cryptocurrencies represent a revolution of world-historical significance. To critics, crypto is more of a speculative tool than a true currency. How do tens of thousands of financial actors make these new monies? What forces give cryptocurrencies their value—or take it away? And what does crypto’s spectacular ascent reveal about the nature of money? In this groundbreaking ethnographic analysis of crypto economies and their global markets and communities, Koray Caliskan offers an inside view of how cryptocurrencies are made and traded. He argues that cryptocurrency should be understood as “data money,” a historically novel money type, created as the right to send data privately over an accounting infrastructure called blockchain. Drawing on two years of fieldwork among global cryptocurrency communities and in crypto markets, Caliskan makes visible the production principles of cryptocurrencies and explores how crypto exchanges work from within. He explains why and how we have been misunderstanding, underregulating, and improperly taxing crypto exchanges and actors. He also proposes a radically new way to make sense of new finance and its actors. An invaluable book for all readers seeking to understand cryptocurrency, *Data Money* sheds new light on a profound transformation of finance and its possible future trajectories.

Handbook of Research on Cloud Computing and Big Data Applications in IoT Gupta, B. B. 2019-04-12 Today, cloud computing, big data, and the internet of things (IoT) are becoming indubitable parts of modern information and communication systems. They cover not only information and communication technology but also all types of systems in society including within the realms of business, finance, industry, manufacturing, and management. Therefore, it is critical to remain up-to-date on the latest advancements and applications, as well as current issues and challenges. The *Handbook of Research on Cloud Computing and Big Data Applications in IoT* is a pivotal reference source that provides

relevant theoretical frameworks and the latest empirical research findings on principles, challenges, and applications of cloud computing, big data, and IoT. While highlighting topics such as fog computing, language interaction, and scheduling algorithms, this publication is ideally designed for software developers, computer engineers, scientists, professionals, academicians, researchers, and students.

Assets, Crimes and the State Katie Benson 2020-02-26 Organised crime, corruption, and terrorism are considered to pose significant and unrelenting threats to the integrity, security, and stability of contemporary societies. Alongside traditional criminal enforcement responses, strategies focused on following the money trail of such crimes have become increasingly prevalent. These strategies include anti-money laundering measures to prevent ‘dirty money’ from infiltrating the legitimate economy, proceeds of crime powers to target the accumulated assets derived from crime, and counter-terrorist financing measures to prevent ‘clean’ money from being used for terrorist purposes. This collection brings together 17 emerging researchers in the fields of anti-money laundering, proceeds of crime, counter-terrorist financing and corruption to offer critical analyses of contemporary anti-assets strategies and state responses to a range of financial crimes. The chapters focus on innovative anti-financial crime measures and assemblages of governance that have become a feature of late modernity and on the ways in which individual nation states have responded to anti-money laundering and counter-terrorist financing requirements in light of their specific social, political, and economic contexts. This collection draws on perspectives from law, criminology, sociology, politics, and other disciplines. It adopts a much-needed international approach, focusing not only on expected jurisdictions, such as the United States and United Kingdom, but also on analysis from countries such as Qatar, Kuwait, Iran, and Nigeria. The authors stand out for their fresh and original research, which places them at the cutting edge of the subject. This book provides a comprehensive, insightful, and original study of an important and developing field for academics,

students, practitioners, and policymakers in multiple jurisdictions.

Handbook of Digital Currency David LEE Kuo Chuen 2015-05-05 Incorporating currencies, payment methods, and protocols that computers use to talk to each other, digital currencies are poised to grow in use and importance. The Handbook of Digital Currency gives readers a way to learn about subjects outside their specialties and provides authoritative background and tools for those whose primary source of information is journal articles. Taking a cross-country perspective, its comprehensive view of the field includes history, technicality, IT, finance, economics, legal, tax and regulatory environment. For those who come from different backgrounds with different questions in mind, The Handbook of Digital Currency is an essential starting point. Discusses all major strategies and tactics associated with digital currencies, their uses, and their regulations Presents future scenarios for the growth of digital currencies Written for regulators, crime prevention units, tax authorities, entrepreneurs, micro-financiers, micro-payment businesses, cryptography experts, software developers, venture capitalists, hedge fund managers, hardware manufacturers, credit card providers, money changers, remittance service providers, exchanges, and academics Winner of the 2015 "Outstanding Business Reference Source" by the Reference and User Services Association (RUSA)

The Palgrave Handbook of Criminal and Terrorism Financing Law Colin King 2018-05-04 The Palgrave Handbook of Criminal and Terrorism Financing Law focuses on how criminal and terrorist assets pose significant and unrelenting threats to the integrity, security, and stability of contemporary societies. In response to the funds generated by or for organised crime and transnational terrorism, strategies have been elaborated at national, regional, and international levels for laws, organisations and procedures, and economic systems. Reflecting on these strands, this handbook brings together leading experts from different jurisdictions across Europe, America, Asia, and Africa and from different disciplines, including law, criminology, political

science, international studies, and business. The authors examine the institutional and legal responses, set within the context of both policy and practice, with a view to critiquing these actions on the grounds of effective delivery and compliance with legality and rights. In addition, the book draws upon the experiences of the many senior practitioners and policy-makers who participated in the research project which was funded by a major Arts and Humanities Research Council grant. This comprehensive collection is a must-read for academics and practitioners alike with an interest in money laundering, terrorism financing, security, and international relations.

Fintech Regulation in China Robin Hui Huang 2021-07 Provides a systematic and contextualized account of China's Fintech regulation.

Inclusive FinTech Lee David Kuo Chuen 2018-06-21 Cryptocurrency market has been growing fast since its emergence in recent years. Moreover, digital finance has forged the convergence of profit motives with social objectives creating a class of large FinTech companies. In addition, the underlying technology innovation may be applied to a wide range of industries, not limited to financial sector. Yet, few researches have been done to study these phenomena. Hence, it is the task of this book to shed light on the introduction and trends in FinTech, blockchain and token sales. Richly illustrated with original lecture slides taught by the authors, Inclusive FinTech: Blockchain, Cryptocurrency and ICO hopes to dispel the many misconceptions about blockchain and cryptocurrencies (especially bitcoin, Initial Crypto-Token Offering or ICO), as well as the idea that businesses can be sustainable without a social dimension going forward. With comprehensive coverage given to the FinTech scene in Asia, it is targeted at those who are searching for business opportunities. Most important of all, this book seeks to change the mindset of a whole new generation that is familiar with digital economy and yearns for a more just and equitable world.

Global Perspectives in FinTech Hung-Yi Chen 2022-10-03 FinTech is an emerging field and most of the existing literature appears in the form of industry reports, consulting reports, working

papers, and policy recommendations. Although FinTech has been widely discussed for many years, there is a paucity of literature on some categorizations of FinTech. This edited volume distinguishes itself by focusing on academic works of scholars with a different area of specialization in the FinTech field including technology, innovation and regulation. In particular, the book focuses on the laws and technologies necessary to comprehend the role of the legal system in technological innovations and will be helpful for regulatory policymaking. A practical compendium that explains concepts and follows through on applications in FinTech including its challenges and evolving nature, this book will be of interest to students, scholars, practitioners as well as regulators and policy makers.

High-Performance Modelling and Simulation for Big Data Applications

Joanna Kołodziej
2019-03-25 This open access book was prepared as a Final Publication of the COST Action IC1406 “High-Performance Modelling and Simulation for Big Data Applications (cHiPSet)” project. Long considered important pillars of the scientific method, Modelling and Simulation have evolved from traditional discrete numerical methods to complex data-intensive continuous analytical optimisations. Resolution, scale, and accuracy have become essential to predict and analyse natural and complex systems in science and engineering. When their level of abstraction raises to have a better discernment of the domain at hand, their representation gets increasingly demanding for computational and data resources. On the other hand, High Performance Computing typically entails the effective use of parallel and distributed processing units coupled with efficient storage, communication and visualisation systems to underpin complex data-intensive applications in distinct scientific and technical domains. It is then arguably required to have a seamless interaction of High Performance Computing with Modelling

and Simulation in order to store, compute, analyse, and visualise large data sets in science and engineering. Funded by the European Commission, cHiPSet has provided a dynamic trans-European forum for their members and distinguished guests to openly discuss novel perspectives and topics of interests for these two communities. This cHiPSet compendium presents a set of selected case studies related to healthcare, biological data, computational advertising, multimedia, finance, bioinformatics, and telecommunications.

Artificial Intelligence Research and Development

A. Nebot 2016-09-21 The Catalan Association for Artificial Intelligence (ACIA) was formed in 1994 with the aim of promoting cooperation between researchers in artificial intelligence within the Catalan speaking community. This objective has been achieved and widened since the association held their first conference in 1998, and the annual conference of the association has become an international event presenting and discussing the latest research in AI, which attracts AI researchers from around the world. This book presents the proceedings of the 19th International Conference of the Catalan Association for Artificial Intelligence (CCIA 2016), held in Barcelona, Spain, on 19-21 October. From a total of 50 original contributions, 16 long papers and 22 short papers were accepted for presentation at the conference on the basis of their relevance, originality and technical validity. The book is divided into 7 sections: Invited Talks (synopsis only); Vision and Robotics; Logic, Constraint Satisfaction and Qualitative Theory; Classification and Clustering; Modelling; Planning and Recommender Systems; Lexical Knowledge Representation and Natural Language Processing. Providing an overview of the latest developments in the field, this book will be of interest to all those whose work involves research into, and the application of, artificial intelligence.