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Blockchain Technology - Sonali Vyas 2022-04-13

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

Artificial Intelligence for Cyber Security: Methods, Issues and Possible Horizons or Support Unit Misra 2021-05-31

This book provides stepwise discussion, exhaustive literature review, detailed analysis and discussion, rigorous experimentation results (using several analytics tools), and an application-oriented approach that can be demonstrated with respect to data analytics using artificial intelligence to make systems stronger (i.e., impossible to breach). We can see many serious cyber breaches on Government databases or public profiles at online social networking in the recent decade. Today artificial intelligence or machine learning is redefining every aspect of cyber security. From improving organizations' ability to anticipate and thwart breaches, protecting the proliferating number of threat surfaces with Zero Trust Security frameworks to making passwords obsolete, AI and machine learning are essential to securing the perimeters of any business. The book is useful for researchers, academics, industry players, data engineers, data scientists, governmental organizations, and non-governmental organizations.

Blockchain Success Stories - Sir John Hargrave 2020-10-19

Accessible and fun to read, this practical book contains a collection of stories of organizations using blockchain technology in practice. Through deep research and firsthand interviews, authors Sir John Hargrave and Evan Karnoupakis show you how leading-edge organizations have worked to integrate blockchain into their businesses. You'll start by exploring the origins of blockchain, with plain-English descriptions of industry terminology like bitcoin, cryptocurrencies, and smart contracts. Then you'll dive into 10 story-driven case studies that will teach you easy-to-understand blockchain best practices. Explore real-life examples of companies developing and integrating blockchain applications for mobile voting, credentialing, supply chains, and a \$100 million virtual cat collectible marketplace Discover how blockchain is transforming industries like banking, communications, government, logistics, and nonprofits Learn about engaging blockchain success stories, such as Binance, Ethereum, and Circle Examine common blockchain best practices, with illustrations for easy reference, and learn how to apply them in your business, government project, or charitable foundation

Blockchain Intelligence - Zibin Zheng 2021-05-31

This book focuses on using artificial intelligence (AI) to improve blockchain ecosystems. Gathering the

latest advances resulting from AI in blockchain data analytics, it also presents big data research on blockchain systems. Despite blockchain's merits of decentralisation, immutability, non-repudiation and traceability, the development of blockchain technology has faced a number of challenges, such as the difficulty of data analytics on encrypted blockchain data, poor scalability, software vulnerabilities, and the scarcity of appropriate incentive mechanisms. Combining AI with blockchain has the potential to overcome the limitations, and machine learning-based approaches may help to analyse blockchain data and to identify misbehaviours in blockchain. In addition, deep reinforcement learning methods can be used to improve the reliability of blockchain systems. This book focuses in the use of AI to improve blockchain systems and promote blockchain intelligence. It describes data extraction, exploration and analytics on representative blockchain systems such as Bitcoin and Ethereum. It also includes data analytics on smart contracts, misbehaviour detection on blockchain data, and market analysis of blockchain-based cryptocurrencies. As such, this book provides researchers and practitioners alike with valuable insights into big data analysis of blockchain data, AI-enabled blockchain systems, and applications driven by blockchain intelligence.

AI and Blockchain Technology in 6G Wireless Networks Madaya Dutta Borah 2022-09-11

This book highlights future research directions and latent solutions by integrating AI and Blockchain 6G networks, comprising computation efficiency, algorithms robustness, hardware development and energy management. This book brings together leading researchers in Academia and industry from diverse backgrounds to deliver to the technical community an outline of emerging technologies, advanced architectures, challenges, open issues and future directions of 6G networks. This book is written for researchers, professionals and students to learn about the integration of technologies such as AI and Blockchain into 6G network and communications. This book addresses the topics such as consensus protocol, architecture, intelligent dynamic resource management, security and privacy in 6G to integrate AI and Blockchain and new real-time application with further research opportunities.

NFT Investing for Beginners to Advanced, Make Money; Buy, Sell, Trade, Invest in Crypto Art, Create Digital Assets, Earn Passive Income in Cryptocurrency, Stocks, Collectables and Royalty Shares - Nft Trending Crypto Art 2021-06-08

This NFT book is the complete practical easy to read and follow guide for beginners to invest in NFTs.

Integrated Science in Digital Age 2020 - Tatiana Antipova 2020-05-26

This book presents the proceedings of the 2020 International Conference on Integrated Science in Digital Age, which was jointly supported by the Institute of Certified Specialists (Russia) and Springer, and was held on May 1-3, 2020. The conference provided an international forum for researchers and practitioners to present and discuss the latest innovations, trends, results, experiences and concerns in the various areas of integrated science in the digital age. The main goal of the conference was to efficiently disseminate original findings in the natural and social sciences, covering topics such as blockchain & cryptocurrency; computer law & security; digital accounting & auditing; digital business & finance; digital economics; digital education; digital engineering; machine learning; smart cities in the digital age; health policy & management; and information management.

Crypto Investing Guide - Ian Balina 2021-09-07

Lack of knowledge is no longer an excuse - there's no time like the present for becoming a crypto investor. What if we told you that one book could contain an entire education in crypto investing topics? Whether you're an uninitiated newbie or an established veteran, this book exists to help you get a profitable start as a new crypto investor. The committed reader will go on an educational journey that starts in the world of conventional finance before crossing the crypto bridge to go deep on crypto assets, decentralized finance, NFTs, and security token offerings. This book is your one-stop shop on building a deadly working knowledge of the crypto markets and our ideas on how to play them profitably. It's time for the wall of technical smoke and mirrors around crypto to come down, and this book represents an experienced technical team sharing its hard-won knowledge as accessible as possible. You don't need to be a math genius to trade crypto successfully. But you do need a strong base of knowledge to work from. This book is your foundation.

Blockchain Technology in Healthcare Applications - Bharat Bhushan 2022-04-18

Tremendous growth in healthcare treatment techniques and methods has led to the emergence of numerous storage and communication problems and need for security among vendors and patients. This book brings together latest applications and state-of-the-art developments in healthcare sector using Blockchain technology. It explains how blockchain can enhance security, privacy, interoperability, and data accessibility including AI with blockchains, blockchains for medical imaging to supply chain management, and centralized management/clearing houses alongside DLT. Features: Includes theoretical concepts, empirical studies and detailed overview of various aspects related to development of healthcare applications from a reliable, trusted, and secure data transmission perspective. Provide insights on business applications of Blockchain, particularly in the healthcare sector. Explores how Blockchain can solve the transparency issues in the clinical research. Discusses AI with Blockchains, ranging from medical imaging to supply chain management. Reviews benchmark testing of AI with Blockchains and its impacts upon medical uses. This book aims at researchers and graduate students in healthcare information systems, computer and electrical engineering.

Democratizing Finance Marion Laboure 2022-04-05

We are only in the early stages of a broader revolution that will impact every aspect of the global economy, including commerce and government services. Coming financial technology innovations could improve the quality of life for all people. Over the past few decades, digital technology has transformed finance. Financial technology (fintech) has enabled more people with fewer resources, in more places around the world, to take advantage of banking, insurance, credit, investment, and other financial services. Marion Laboure and Nicolas Deffrennes argue that these changes are only the tip of the iceberg. A much broader revolution is under way that, if steered correctly, will lead to huge and beneficial social change. The authors describe the genesis of recent financial innovations and how they have helped consumers in rich and poor countries alike by reducing costs, increasing accessibility, and improving convenience and efficiency. They connect the dots between early innovations in financial services and the wider revolution unfolding today. Changes may disrupt traditional financial services, especially banking, but they may also help us address major social challenges: opening new career paths for millennials, transforming government services, and expanding the gig economy in developed markets. Fintech could lead to economic infrastructure developments in rural areas and could facilitate emerging social security and healthcare systems in developing countries. The authors make this case with a rich combination of economic theory and case studies, including microanalyses of the effects of fintech innovations on individuals, as well as macroeconomic perspectives on fintech's impact on societies. While celebrating fintech's achievements to date, Laboure and Deffrennes also make recommendations for overcoming the obstacles that remain. The stakes—improved quality of life for all people—could not be higher.

Asset Pricing and Investment Styles in Digital Assets - Tobias Glas

This book analyzes the emerging asset class of digital assets. When a new asset class originates, researchers try to understand some basic questions: Can digital assets, with the flagship asset bitcoin, really be considered a serious asset class? Since it is possible to trade digital assets, does it make sense to trade or to invest in these assets? How do digital assets compare to traditional asset classes like equities or bonds? After describing basic financial theory and breaking down the digital asset universe, this book

provides fundamental knowledge with respect to this young and rising asset class. It focuses on special issues like the application of technical indicators, investment styles, asset pricing and portfolio construction. Furthermore, it offers remarks and links to other traditional asset classes and describes and warns of data issues in digital asset data.

Data Science and Intelligent Applications - Ketan Kotecha 2020-06-17

This book includes selected papers from the International Conference on Data Science and Intelligent Applications (ICDSIA 2020), hosted by Gandhinagar Institute of Technology (GIT), Gujarat, India, on January 24–25, 2020. The proceedings present original and high-quality contributions on theory and practice concerning emerging technologies in the areas of data science and intelligent applications. The conference provides a forum for researchers from academia and industry to present and share their ideas, views and results, while also helping them approach the challenges of technological advancements from different viewpoints. The contributions cover a broad range of topics, including: collective intelligence, intelligent systems, IoT, fuzzy systems, Bayesian networks, ant colony optimization, data privacy and security, data mining, data warehousing, big data analytics, cloud computing, natural language processing, swarm intelligence, speech processing, machine learning and deep learning, and intelligent applications and systems. Helping strengthen the links between academia and industry, the book offers a valuable resource for instructors, students, industry practitioners, engineers, managers, researchers, and scientists alike.

Blockchain for 5G-Enabled IoT - Sudeep Tanwar 2021-04-09

This book addresses one of the most overlooked practical, methodological, and moral questions in the journey to secure and handle the massive amount of data being generated from smart devices interactions: the integration of Blockchain with 5G-enabled IoT. After an overview, this book discusses open issues and challenges, which may hinder the growth of Blockchain technology. Then, this book presents a variety of perspectives on the most pressing questions in the field, such as: how IoT can connect billions of objects together; how the access control mechanisms in 5G-enabled industrial environment works; how to address the real-time and quality-of-service requirements for industrial applications; and how to ensure scalability and computing efficiency. Also, it includes a detailed discussions on the complexity of adoption of Blockchain for 5G-Enabled IoT and presents comparative case studies with respect to various performance evaluation metrics such as scalability, data management, standardization, interoperability and regulations, accessibility, human-factors engineering and interfaces, reliability, heterogeneity, and QoS requirements. This book acts as a professional guide for the practitioners in information security and related topics.

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-bureaucratization 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.

Layered Money - Nik Bhatia 2021-01-18

In this fascinating deep dive into the evolution of monetary systems around the globe, Nik Bhatia takes us

into the origins of how money has evolved to function in a "layered" manner. Using gold as an example of this term, he traces the layers of this ancient currency from raw mined material, to gold coins, and finally to bank-issued gold certificates. In a groundbreaking manner, Bhatia offers a similar paradigm for the evolution of digital currencies. Bhatia's analysis begins in Renaissance Florence with the gold Florin coin and a burgeoning banking culture, continues with the evolution of central banking, and concludes with a vision for the future of our international monetary system. As central banks around the world prepare to launch their own crypto-competitors, Bhatia illustrates how the invention of Bitcoin created a seismic shift in money and merged the monetary and cryptography sciences. His unique analysis of "layered money" illuminates money markets for the general reader and shows how Bitcoin is becoming a trusted global currency. Readers will come away with an understanding of the mechanics of our financial system, why the dollar is deeply entrenched despite its state of disrepair, and how Central Bank Digital Currencies (CBDCs) and cryptocurrencies will interact in our new monetary future.

GLOBAL LEGAL INSIGHTS - BLOCKCHAIN & CRYPTOCURRENCY REGULATION. - JOSIAS. DEWEY 2018

Security and Trust Issues in Internet of Things - Sudhir Kumar Sharma 2020-12-02

The purpose of this edited book is to present and showcase the basic fundamentals, applications, and integration of both IoT and Blockchain. The trend of applying Blockchain to IoT is rapidly growing because it helps to overcome various challenges faced by IoT, from smart manufacturing to unmanned aerial vehicles. This book aims to showcase the basics of both IoT and Blockchain as well as the integration and challenges for existing practitioners. This book initiates conversations among technologists, engineers, scientists, and clinicians to synergize their efforts in producing low-cost, high-performance, highly efficient, deployable IoT systems. This book is theory-based and is useful for engineers from various disciplines, including industrial engineering, computer science, electronics, telecommunications, electrical, agricultural, and cybersecurity, along with researchers, professionals, and students.

Digital Era and Fuzzy Applications in Management and Economics - Martha del Pilar Rodríguez García 2022
This book aims to contribute to the discussion about the implications of fuzzy logic, neural networks, digital era, and other intelligent techniques on organizations. This book will be very useful for academic researchers and postgraduate students aiming to introduce themselves to the field of quantitative techniques for overcoming uncertain environments and developing models to make decisions.

Developments in other theories and socioeconomic and computational changes have shed light on the importance of fuzzy applications in social sciences. The treatment of uncertainty in the economic and business analysis is fundamental and requires instruments compatible with the uncertain environment of economics and business, because most of the traditional models have been overtaken by this reality when trying to make decisions with uncertain information. In the face of information technology, digitization, and uncertainty, organizations confront new opportunities and challenges. In order to take advantage of these opportunities and overcome current and future challenges, it is needed to understand the evolution of these phenomenon.

Handbook of Research on Strategic Management for Current Energy Investments - Niksel, Serhat 2021-06-11

Energy has a wide range of uses within a country, including socially and economically. Providing everything from warmth and light to raw materials for industrial production, energy is an essential need for countries. Due to the importance of energy for countries, energy policies are extremely vital, and energy needs to be affordable, eco-friendly, and continuous so countries can provide for their people and continue to develop industrially. Without the availability of energy that is cheap and continuous, the effectiveness in the energy supply process will be reduced, and society will experience difficulties in having its daily energy needs met. The Handbook of Research on Strategic Management for Current Energy Investments analyzes current trends in energy production and use and identifies energy investment strategies in order to support affordable and available energy for all. Chapters within the book cover technological developments that contribute to the reduction of price in energy production as well as renewable energy sources that provide continuity in energy production but do not emit carbon into the atmosphere. This book highlights topics

that cover environmental pollution, energy pricing, economic growth, carbon dioxide emission, and energy management. It is ideal for engineers, technicians, managers, researchers, academicians, policymakers, government officials, and students in related fields.

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.

Regulating the Crypto Economy - Iris H-Y Chiu 2021-10-21

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.

Sustainable Digital Economy, Entrepreneurship, and Blockchain Technology role in Industrial-Organizational Psychology - Muddassar Sarfraz 2022-08-11

Venture Deals Jason Mendelson 2011-07-05

An engaging guide to excelling in today's venture capital arena Beginning in 2005, Brad Feld and Jason Mendelson, managing directors at Foundry Group, wrote a long series of blog posts describing all the parts of a typical venture capital Term Sheet: a document which outlines key financial and other terms of a proposed investment. Since this time, they've seen the series used as the basis for a number of college courses, and have been thanked by thousands of people who have used the information to gain a better understanding of the venture capital field. Drawn from the past work Feld and Mendelson have written about in their blog and augmented with newer material, *Venture Capital Financings* puts this discipline in perspective and lays out the strategies that allow entrepreneurs to excel in their start-up companies. Page by page, this book discusses all facets of the venture capital fundraising process. Along the way, Feld and Mendelson touch on everything from how valuations are set to what externalities venture capitalists face that factor into entrepreneurs' businesses. Includes a breakdown analysis of the mechanics of a Term Sheet and the tactics needed to negotiate Details the different stages of the venture capital process, from starting a venture and seeing it through to the later stages Explores the entire venture capital ecosystem including those who invest in venture capitalist Contain standard documents that are used in these transactions Written by two highly regarded experts in the world of venture capital The venture capital arena is a complex and competitive place, but with this book as your guide, you'll discover what it takes to make your way through it.

Evolutionary Computing and Mobile Sustainable Networks - V. Suma 2022

This book mainly reflects the recent research works in evolutionary computation technologies and mobile sustainable networks with a specific focus on computational intelligence and communication technologies that widely ranges from theoretical foundations to practical applications in enhancing the sustainability of mobile networks. Today, network sustainability has become a significant research domain in both academia and industries present across the globe. Also, the network sustainability paradigm has generated a solution for existing optimization challenges in mobile communication networks. Recently, the research advances in evolutionary computing technologies including swarm intelligence algorithms and other evolutionary algorithm paradigms are considered as the widely accepted descriptors for mobile sustainable networks virtualization, optimization, and automation. To deal with the emerging impacts on mobile communication networks, this book discusses about the state-of-the research works on developing a sustainable design and their implementation in mobile networks. With the advent of evolutionary computation algorithms, this book contributes varied research chapters to develop a new perspective on mobile sustainable networks.

The Cold Start Problem - Andrew Chen 2021-12-07

A startup executive and investor draws on expertise developed at the premier venture capital firm Andreessen Horowitz and as an executive at Uber to address how tech's most successful products have solved the dreaded "cold start problem"—by leveraging network effects to launch and scale toward billions of users. Although software has become easier to build, launching and scaling new products and services remains difficult. Startups face daunting challenges entering the technology ecosystem, including stiff competition, copycats, and ineffective marketing channels. Teams launching new products must consider the advantages of "the network effect," where a product or service's value increases as more users engage with it. Apple, Google, Microsoft, and other tech giants utilize network effects, and most tech products incorporate them, whether they're messaging apps, workplace collaboration tools, or marketplaces. Network effects provide a path for fledgling products to break through, attracting new users through viral growth and word of mouth. Yet most entrepreneurs lack the vocabulary and context to describe them—much less understand the fundamental principles that drive the effect. What exactly are network effects? How do teams create and build them into their products? How do products compete in a market where every player has them? Andrew Chen draws on his experience and on interviews with the CEOs and founding teams of LinkedIn, Twitch, Zoom, Dropbox, Tinder, Uber, Airbnb, and Pinterest to offer unique insights in answering these questions. Chen also provides practical frameworks and principles that can be applied across products and industries. The Cold Start Problem reveals what makes winning networks thrive, why some startups fail to successfully scale, and, most crucially, why products that create and compete using the network effect are vitally important today.

Blockchain and the Digital Economy - Steinmetz FIEDLER 2020-07-31

This book presents the key concepts of blockchain technology and an overview of the machinations of different blockchain ecosystems. It discusses the socioeconomic impact of this new technology, including its effects on sectors such as energy, data, capital markets, logistics, and gambling.

Cryptocurrencies and Blockchain Technology - Andrew Karpan 2019-07-15

With cryptocurrencies like Bitcoin on the rise, many wonder if these digital currencies could be the exchange medium of the future, but what are cryptocurrencies and the blockchain technology that facilitates them? Blockchain technology involves linking a series of digital records through cryptography without the use of a centralized server, which when applied to asset exchange creates cryptocurrencies. However, there are various concerns about the ability to regulate cryptocurrencies, their stability, and whether they can be applied on a global scale. This volume enables readers to better understand these new technologies and the controversies surrounding them.

Application of Big Data, Blockchain, and Internet of Things for Education Informatization - Mian Ahmad Jan

Artificial Intelligence Applications and Innovations - Ilias Maglogiannis 2020-05-29

This 2 volume-set of IFIP AICT 583 and 584 constitutes the refereed proceedings of the 16th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations, AIAI 2020, held in Neos

Marmaras, Greece, in June 2020.* The 70 full papers and 5 short papers presented were carefully reviewed and selected from 149 submissions. They cover a broad range of topics related to technical, legal, and ethical aspects of artificial intelligence systems and their applications and are organized in the following sections: Part I: classification; clustering - unsupervised learning -analytics; image processing; learning algorithms; neural network modeling; object tracking - object detection systems; ontologies - AI; and sentiment analysis - recommender systems. Part II: AI ethics - law; AI constraints; deep learning - LSTM; fuzzy algebra - fuzzy systems; machine learning; medical - health systems; and natural language. *The conference was held virtually due to the COVID-19 pandemic.

Enabling Blockchain Technology for Secure Networking and Communications - Ben Mnaouer, Adel 2021-06-11

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

Informatics and Cybernetics in Intelligent Systems - Radek Silhavy

This book constitutes the refereed proceedings of the informatics and cybernetics in intelligent systems section of the 10th Computer Science Online Conference 2021 (CSOC 2021), held online in April 2021. Modern cybernetics and computer engineering papers in the scope of intelligent systems are an essential part of actual research topics. In this book, a discussion of modern algorithms approaches techniques is held.

Origin of a Specie™ - Anoop Bungay 2019-08-29

Welcome to the public disclosure of the world's first body of required reading for ALL duly appointed, lawfully elected or employed persons in public office or in private enterprise, as leaders; legislators, policymakers; regulators; technical experts; scientists; members of Top Management; global professional liability insurers including corporate risk insurers; legal professionals; law enforcement; and business persons; promoters; consultants; investors; students - in at least 119 countries - who seek primary source, traceable, verifiable and immutable knowledge on the origins, commercialization, litigation-testing and National and International Standardization of the "Principles of 'BlockChain'" and related concept system subject matter: including but not limited to electronic peer-to-peer finance (non-bank, non-institutional, non-syndicated, non-regulated or regulatory exempt, free trading; (P2P)/Private/Crypto/Secret/Shadow) utility tokens, securities token. This global public disclosure is designed to be your practical and scholarly, primary source knowledge commencing from at least as early as 14-August-2001 until present day (September 2019 - or as of latest update) on the origin of the "Principles of 'BlockChain'" and related concept system matter; and is designed to be relied upon as a legislative-, regulatory-, public policy-making-, academic-, business-, investment-, professional-, technical-, and scientific reference, now and into the future. As an electronic - (intellectual property token; trademark brand: MQCC InPUT™) - format encyclopedic authoritative reference, this First Edition will be continually improved until the next edition is published. If you are a lawfully elected or duly appointed public official (Head of State, Senator, Minister, Legislator, Policy Maker, Regulator); lawfully elected, duly appointed or employed member of a regulated, reporting or private organization in the role of Top Management (Chief Executive Officer (CEO)- level or Board of Director-level) member; a legal professional; an professional liability insurance/organization risk

underwriter; an investor, academic or interested person: before you spend any of your personal money (or any more personal money) and your valuable personal time on 'BlockChain'-anything or 'crypto'-anything; put this electronic reference [intellectual property utility token (distinctively known as the MQCC™ - registered, global trademark: MQCC InPUT™)] in your personal library and learn directly from the person (Author) who: <*> first identified and commercialized (starting at least as early as April 9, 2005) a globally accessible, peer-to-peer electronic finance system; (cryptofinancial network). <*> first registered (starting at least as early as May 9, 2008) a subordinate Quality Management System to ISO 9001:2000; ISO 9001:2008 and the current risk-based ISO 9001:2015 in order to publicly prove to "the world", that the globally accessible system-network methods and products are better, safer, more efficient and in order to establish at-a-glance (prima facie) levels of trust - at a global scale; <*> Over the past 19 years, has personally introduced and educated the following classes of people on the origins and over-14 years of successfully commercialized, National and International consensus-standards-based, application the overarching concept system including: the "Principles of 'BlockChain'; utility tokens, securities tokens, conformity science: *> public officials (Ministers, Legislators, Policy Makers, Regulators) *> lawyers employed by law enforcement agencies *> lawyers employed by public market securities regulators *> CEO's, Executive Officers, members of Top Management of regulated, reporting or private business organizations *> retail customers (investors and investees) *> and more <*> Developed, what is today, the world's most trusted and trustworthy global system-network of its kind that, for over 12 years, meets and exceeds United States a (US) Department of Defense (DoD), General Services Administration (GSA), and the National Aeronautics and Space Administration (NASA) Higher-level contract quality requirements and integrates elements of the globally trusted US National Institute of Standards and Technology (NIST) Framework Core for Improving Critical Infrastructure Cybersecurity. This encyclopedic authoritative reference takes you from the start, from at least as early as 14-August-2001 to Present day (September 2019). Now that this compendium is published, if any consultant or business promoter, anywhere in the world (at least in 119 countries where ISO 9000 is considered a National Standard class of family of standards) on matters claims to know what he or she is talking about and has not proven to you that they have read this important work of public disclosure, then they really don't know scientific-based, historically-accurate, information timeline. -> Learn how the Author has been telling CryptoExchange CEO's to learn the MQCC Standards™, so they can make their cryptoexchanges better, safer and more efficient for the inexperienced global public and regulatory community -- months (and years) before sad events occurred when some exchanges suffered catastrophic shutdowns because Top Management did not have and still do not have, the historically proven systems that they need to assure better, safer and more efficient cryptofinancial operations; which MQCC developed. --> Learn how some CEO's or Top Management of Banks and Public Securities Exchanges have been explained that an over 14 year-old fully functional system built on the "Principles of 'BlockChain'" exists and will prevent corporate shareholder financial loss caused by risk due to uncertainty created by nonconformity events like mortgage fraud and ineffective public (reporting securities issuer) company operators. -> Learn how a proven regulatory-integrated framework of co-existence between public securities regulators and non-public securities regulators and regulatees has evolved since at least as early as August 14, 2001. -> Learn how the term Bungay Unification of Quantum Processes Algorithm also represented as the "Principles of 'BlockChain'" was abstracted from observation of the originating object or phenomenon. -> Learn how to find out who is a competent consultant and who is not a competent consultant on matters related to the "Principles of 'BlockChain'" -> Learn how the global community has misunderstood the origins and wasted (in some cases, literally) millions of dollars in ideas that are "BlockChain-in-Name-Only". -> Learn how "The Principles of 'BlockChain'" have nothing to do with computer programming language C++; which was used to program the bitcoin, alpha-state, experimental software program. -> Learn about the discovery and commercialization of SYSTEMS-LEVEL Artificial Intelligence (SL) by the yours sincerely. -> Learn how commercially available suite of systems, technology, services and products work for any size organization: 1 owner-operator to an organization with 1,000,000 million employees and more. This encyclopedic authoritative reference will be your best investment in this subject matter, ever. More about this encyclopedic authoritative reference The "Principles of 'BlockChain'" were naturally discovered out of a need to create a governance and operating

system for the world's first "peer-to-peer (P2P) electronic finance system-network" for the trade in non-bank, non-institutional, non-syndicated, non-regulated or regulatory exempt, free trading securities and related financial instruments; commencing from at least as early as August 14, 2001. As a reminder, before you invest or spend any money on "BlockChain"-anything, or "crypto"-anything; learn from from the person who first discovered and then commercialized it, since at least as early as April 9, 2005 at www.privatelender.org; a person who also happens to be the world's leading authority on National and International Standards-Class NISC™ (in at least 119 countries), Quality Management System-integrated, regulatory-integrated, litigation-tested, BlockChain-based Systems, Technology, Services and Products. WARNING: If you have any question of comprehension or understanding, seek professional counsel before you - another friendly reminder - spend even one more unit of fiat currency ("real" money) on any "BlockChain" or "Crypto" project. Ask your local legislator, lawyer or, in the future your local conformity scientist and PROFESSIONAL BLOCKCHINEER™/®. Remember this authoritative encyclopedic reference is written by the person who developed the world's first commercialized an application of the "Principles of 'BlockChain'" in Commerce for a peer-to-peer electronic finance system. A body of transmudane knowledge encompassing a variety of knowledge disciplines. Having built "it" first and having built "it" right, means - despite being the CEO of a commercial finance sector organization - the Author is more or less "under the radar" from the scrutiny of the general public due to successful application of the sub-principle "effective disintermediation"; as such, nobody on Earth has really been afforded an opportunity to "look behind the history" - in a single, primary source compendium - to see how delicate, comprehensive, complex and beneficial conformity science and the "Principles of 'BlockChain'", truly are. Not to mention the painstaking diligent years of maintaining the momentum. If you, your family, your company or your country is even "thinking" about investing limited sovereign resources and valuable time into the "Principles of 'BlockChain'", "crypto"-anything, "token"-anything and related matters (or want to be an authority on the subject), then learn about its origins, its regulatory-scrutinized, litigation-tested commercial applications of the present-day, and its future. Especially if you are (or will be, one day) employed as a Head of State, Legislator, Policymaker, Regulator, Lawyer, member of "Top Management" (Chief Executive Officer (CEO) or Board Member of a regulated or non-regulated Organization, Academic (student, undergraduate, graduate, doctoral, post-doctoral research), Journalist, Professional Liability Insurer, Investor, Head of a Family Office; or, if you are your normal, everyday person, just curious about the world. This work of scientific-commercial-regulatory-financial literature is both a public service and an introduction to the foundational body of knowledge that led to the discovery of the "Principles of 'BlockChain'", the birth of binary digit non-bank, non-institutional, non-syndicated, non-regulated or regulatory exempt, free trading securities and related financial instruments; also known as Peer-to-Peer (P2P)/Private/Crypto/Secret/Shadow securities and related financial instruments; Binary Digit Financial Instruments or Digital Assets and the Discovery of Conformity Science. It is the foundation of evolutionary digital commerce (a new field of science for the study of the evolutionary (revolutionary, perhaps?) processes related to the discovery of the "Principles of 'BlockChain'" and production of binary digit financial instruments (digital assets), systems, technologies, services and products. The body of evidence - as you would expect from the creator of a system built on principles that creates trust through transparency, immutability, validation, traceability and verifiability - is itself, traceable, verifiable, immutable and transparent. You will not find this content anywhere else. MQCC is the point of origination. The Bungay Unification of Quantum Processes Algorithm: when Quantum Unification Theory met Commerce. A revolutionary paradigm shift in how commerce is transacted, allowing for realizable quality, conformity and control goals to be achieved; resulting in long term, sustainable inflows of money. And lots of it. If you agree that the "Principles of 'BlockChain'" offer the utmost level of immutable data (knowledge) veracity, validity, verifiability, transparency, proof and truth; then you will understand the non-trivial implications of this history of the discovery of the "Principles of 'BlockChain'". Origin of a Specie™: an authoritative encyclopedic reference that only the discoverer of the world's first globally accessible, regulatory-recognized, regulatory-integrated and regulatory-trusted, commercialized "Principles of 'BlockChain'" - based system for the trade in non-bank, non-institutional, non-syndicated, non-regulated or regulatory exempt, free trading securities and related financial instruments; also known as Peer-to-Peer

(P2P)/Private/Crypto/Secret/Shadow securities and related financial instruments (Binary Digit Utility Tokens for Digital Assets), could write.

Distributed Computer and Communication Networks: Control, Computation, Communications -

Vladimir M. Vishnevskiy 2021-01-04

This book constitutes the refereed proceedings of the 23rd International Conference on Distributed and Computer and Communication Networks, DCCN 2020, held in Moscow, Russia, in September 2020. Due to the COVID-19 pandemic the conference was held online. The 43 papers were carefully reviewed and selected from 167 submissions. The papers are organized in the following topical sections: computer and communication networks and technologies; analytical modeling of distributed systems, and distributed systems applications.

Emerging Digital Citizenship Regimes - Igor Calzada 2022-05-25

Emerging Digital Citizenship Regimes: Postpandemic Technopolitical Democracies explores how increasing digitalisation in post-COVID-19 urban environments is rescaling nation-states in Europe resulting in new emerging digital citizenship regimes, trends, aftermaths, emancipations, and future research avenues.

An Introduction to Algorithmic Finance, Algorithmic Trading and Blockchain - Satya Chakravarty

2020-08-20

The purpose of the book is to provide a broad-based accessible introduction to three of the presently most important areas of computational finance, namely, option pricing, algorithmic trading and blockchain. This will provide a basic understanding required for a career in the finance industry and for doing more specialised courses in finance.

CRYPTOCURRENCY - Raymundo Ramirez 2018-06-01

Cryptocurrency is an electronic money created with technology controlling its creation and protecting transactions, while hiding the identities of its users. Crypto - is short for "cryptography", and cryptography is computer technology used for security, hiding information, identities and more. Cryptocurrencies are digital cash designed to be quicker, cheaper and more reliable than our regular government issued money. Instead of trusting a government to create your money and banks to store, send and receive it, users transact directly with each other and store their money themselves.

Bitcoin and Beyond - Malcolm Campbell-Verduyn 2017-11-28

Since the launch of Bitcoin in 2009 several hundred different 'cryptocurrencies' have been developed and become accepted for a wide variety of transactions in leading online commercial marketplaces and the 'sharing economy', as well as by more traditional retailers, manufacturers, and even by charities and political parties. Bitcoin and its competitors have also garnered attention for their wildly fluctuating values as well as implication in international money laundering, Ponzi schemes and online trade in illicit goods and services across borders. These and other controversies surrounding cryptocurrencies have induced varying governance responses by central banks, government ministries, international organizations, and industry regulators worldwide. Besides formal attempts to ban Bitcoin, there have been multifaceted efforts to

incorporate elements of blockchains, the peer-to-peer technology underlying cryptocurrencies, in the wider exchange, recording, and broadcasting of digital transactions. Blockchains are being mobilized to support and extend an array of governance activities. The novelty and breadth of growing blockchain-based activities have fuelled both utopian promises and dystopian fears regarding applications of the emergent technology to Bitcoin and beyond. This volume brings scholars of anthropology, economics, Science and Technology Studies, and sociology together with GPE scholars in assessing the actual implications posed by Bitcoin and blockchains for contemporary global governance. Its interdisciplinary contributions provide academics, policymakers, industry practitioners and the general public with more nuanced understandings of technological change in the changing character of governance within and across the borders of nation-states.

Cloud Computing - CLOUD 2020 - Qi Zhang 2020-09-17

This book constitutes the proceedings of the 13th International Conference on Cloud Computing, CLOUD 2020, held as part of SCF 2020, during September 18-20, 2020. The conference was planned to take place in Honolulu, HI, USA and was changed to a virtual format due to the COVID-19 pandemic. The 16 full and 6 short papers presented were carefully reviewed and selected from 49 submissions. They deal with the latest fundamental advances in the state of the art and practice of cloud computing, identify emerging research topics, and define the future of cloud computing.

The Future of Money - Eswar S. Prasad 2021-09-28

A cutting-edge look at how accelerating financial change, from the end of cash to the rise of cryptocurrencies, will transform economies for better and worse. We think we've seen financial innovation. We bank from laptops and buy coffee with the wave of a phone. But these are minor miracles compared with the dizzying experiments now underway around the globe, as businesses and governments alike embrace the possibilities of new financial technologies. As Eswar Prasad explains, the world of finance is at the threshold of major disruption that will affect corporations, bankers, states, and indeed all of us. The transformation of money will fundamentally rewrite how ordinary people live. Above all, Prasad foresees the end of physical cash. The driving force won't be phones or credit cards but rather central banks, spurred by the emergence of cryptocurrencies to develop their own, more stable digital currencies. Meanwhile, cryptocurrencies themselves will evolve unpredictably as global corporations like Facebook and Amazon join the game. The changes will be accompanied by snowballing innovations that are reshaping finance and have already begun to revolutionize how we invest, trade, insure, and manage risk. Prasad shows how these and other changes will redefine the very concept of money, unbundling its traditional functions as a unit of account, medium of exchange, and store of value. The promise lies in greater efficiency and flexibility, increased sensitivity to the needs of diverse consumers, and improved market access for the unbanked. The risk is instability, lack of accountability, and erosion of privacy. A lucid, visionary work, *The Future of Money* shows how to maximize the best and guard against the worst of what is to come.

GLOBAL LEGAL INSIGHTS - 2021