

Blockchain For Dummies Ibm Limited Edition

This new volume looks at the electrifying world of blockchain technology and how it has been revolutionizing the Internet of Things and cyber-physical systems. Aimed primarily at business users and developers who are considering blockchain-based projects, the volume provides a comprehensive introduction to the theoretical and practical aspects of blockchain technology. It presents a selection of chapters on topics that cover new information on blockchain and bitcoin security, IoT security threats and attacks, privacy issues, fault-tolerance mechanisms, and more. Some major software packages are discussed, and it also addresses the legal issues currently affecting the field. The information presented here is relevant to current and future problems relating to blockchain technology and will provide the tools to build efficient decentralized applications. Blockchain technology and the IoT can profoundly change how the world—and businesses—work, and this book provides a window into the current world of blockchain. No longer limited to just Bitcoin, blockchain technology has spread into many sectors and into a significant number of different technologies.

Dieses Werk bietet eine eingehende Analyse der wichtigsten Debatten über Blockchain-basierte intelligente Verträge und Vertragsrecht. Nach einer detaillierten Beschreibung der Technologie werden die bestehenden Regeln zu Technologie und Verträgen - von Automaten bis hin zu berechenbaren Verträgen - untersucht und auf ihre Anwendbarkeit auf Blockchain-basierte Smart Contracts überprüft. Der Schwerpunkt liegt dabei auf den Auswirkungen von Blockchain-basierten intelligenten Verträgen auf das Zustandekommen des Vertrages, die Vertragserfüllung und das anwendbare Recht sowie die Gerichtsbarkeit.

El fenómeno global y globalizante de las innovaciones disruptivas suele estudiarse desde una óptica meramente técnica. Pero las innovaciones disruptivas son también un fenómeno cultural que reclama una mirada desde la óptica de las humanidades. Aunque el fenómeno 'disruptivo' no apareció de repente a finales del siglo pasado, se impone inicialmente un escrutinio detallado del pensamiento económico que encapsuló, a modo de credo, el fenómeno disruptivo como una realidad sui generis del más reciente proceso globalizador. Tal análisis aporta la singular paradoja de que el fenómeno disruptivo carecería de un marco teórico válido que permita no solo explicar, sino anticipar su dinámica, al menos a corto o mediano plazo. Resolver esta aporía es un reto académico inmediato, al menos desde el lado de la economía, la sociología y, por qué no, de la filosofía. Por el momento, los productos y servicios derivados de las innovaciones disruptivas son y seguirán siendo elementos cada vez más imprescindibles para una mayoría creciente de habitantes del planeta. Los emprendimientos empresariales que las hacen y harán factibles continuarán imponiendo un rumbo frenético a la inversión e innovación misma. La fisonomía social y cultural de la humanidad en ciernes apenas empieza a ser intuida.

The first edition of this book in 2002 was the first UK text to examine digital copyright together with related areas such as performers' rights, moral rights, database rights and competition law as a subject in its own right. Now in its fifth edition, the book has been substantially updated and revised to take account of legal and policy developments in copyright law and related areas, the new UK copyright exceptions, recent CJEU cases, the regulation of Collective Management Organisations, orphan works, and developments in EU copyright legislation and the EU's Digital Single Market Strategy. It also contains new sections on big data and data mining, the impact of artificial intelligence and blockchain on copyright, and the future for UK copyright after Brexit. The book helps put digital copyright law and policy into perspective and provides practical guidance for those creating or exploiting digital content or technology, whether in academia, the software, information, publishing and creative industries, or other areas of the economy. The focus of Digital Copyright is on the specifics of the law in this area together with practical aspects. Both academics and practitioners will find the book an invaluable guide to this ever-expanding field of law. Review of Previous Edition: 'Overall, Digital Copyright is well worth the relatively modest price for a book that will be stimulating for anyone who has to think about copyright in the digital realm.' Francis Davey, Journal of Intellectual Property Law and Practice

Select Proceedings of ICEM 2020

Innovations in Bio-Inspired Computing and Applications

Scope, Scale and Measurement

Blockchain and Deep Learning

Grokking Bitcoin

Papers in Honor of Professor Nikolaos Alexandris

Advances in Core Computer Science-Based Technologies

This book presents articles from the International Conference on Blockchain Technology (IC-BCT) 2019, held in Mumbai, India, and highlights recent advances in the field. It brings together researchers and industry practitioners to show case their ideas linked to business case studies, and provides an opportunity for engineers, researchers, startups and professionals in the field of Blockchain technology to further collaboration.

In this book, the author outlines a Robust Web Parking, Truck and Transportation Portal (RWPTTP) for integrating parking and transportation services - a revolutionary approach in contrast to incremental change for managing traffic congestion. Autonomous vehicle technology, artificial intelligence, internet of things (IOT), and other interconnected hardware and software tools will assist autonomous parking and

transportation services and provide next-century infrastructure for consolidated transportation customer services. The book highlights currently available autonomous parking and transportation technologies, and the development of an integrated and intelligent transportation service/system (IITS) platform, with specific use of technologies to reconfigure the transportation industry. The author also suggests many regulatory and policy changes to simplify data collection, traffic operation, introduction of a duplicate transportation system using light rail (LRs) and high speed rail (SPRs), and redistribution of parking spaces along such routes, using renewable energy.

The United Nation's Sustainable Development Goals call for the establishment of Good Health and Well-being and target a universal digital healthcare ecosystem by 2030. However, existing technology infrastructure is ineffectual in achieving the envisioned target and requires massive reconfiguration to achieve its intended outcome. This book suggests a way forward with fair and efficient digital health networks that provide resource efficiencies and inclusive access to those who are currently under-served. Specifically, a fair and efficient digital health network that provides a common platform to its key stakeholders to facilitate sharing of information with a view to promote cooperation and maximise benefits. A promising platform for this critical application is 'cloud technology' with its offer of computing as a utility and resource sharing. This is an area that has attracted much scholarly attention as it is well-suited to foster such a network and bring together diverse players who would otherwise remain fragmented and be unable to reap the benefits that accrue from cooperation. The fundamental premise is that the notion of value in a digital-health ecosystem is brought about by the sharing and exchange of digital information. However, notwithstanding the potential of information and communication technology to transform the healthcare industry for the better, there are several barriers to its adoption, the most significant one being misaligned incentives for some stakeholders. This book suggests among other findings, that e-health in its true sense can become fair and efficient if and only if a regulatory body concerned assumes responsibility as the custodian of its citizens' health information so that 'collaboration for value' will replace 'competition for revenue' as the new axiom in delivering the public good of healthcare through digital networks.

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

Changing How We Live Our Lives

Implications of Blockchain-Based Smart Contracts on Contract Law

Bitcoin For Dummies

Tecnologías disruptivas del proceso de globalización

Challenges and Applications in Bitcoin and Security

Blockchain in Action

Autonomous and Integrated Parking and Transportation Services

The book focuses on the power of business blockchain. It gives an overview of blockchain in traditional business, marketing, accounting and business intelligence. The book provides a detailed working knowledge of blockchain, user cases of blockchain in business, cryptocurrency and Initial Coin Offering(ICO) along with the risks associated with them. The book also covers the detailed study of decentralization, mining, consensus, smart contracts, concepts and working of distributed ledgers and hyper ledgers as well as many other important concepts. It also details the security and privacy aspects of blockchain. The book is beneficial for readers who are preparing for their business careers, those who are working with small scale businesses and startups, and helpful for business executives, managers, entrepreneurs, bankers, government officials and legal professionals who are looking to blockchain for secure financial transactions. The book will also be beneficial for researchers and students who want to study the latest developments of blockchain.

This book highlights recent research on bio-inspired computing and its various innovative applications in information and communication technologies. It presents 51 high-quality papers from the 11th International Conference on Innovations in Bio-Inspired Computing and

Applications (IBICA 2020) and 10th World Congress on Information and Communication Technologies (WICT 2020), which was held online during December 16–18, 2019. As a premier conference, IBICA–WICT brings together researchers, engineers and practitioners whose work involves bio-inspired computing, computational intelligence and their applications in information security, real-world contexts, etc. Including contributions by authors from 25 countries, the book offers a valuable reference guide for all researchers, students and practitioners in the fields of Computer Science and Engineering.

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.

Blockchain Technology and the Internet of Things Challenges and Applications in Bitcoin and Security CRC Press

Legal, Regulatory, and Monetary Perspectives

Understanding blockchain and Bitcoin architecture to build decentralized applications

Validating Strategies for Stakeholders

Blockchain Technology and the Internet of Things

Building a High Quality Marketplace for Crypto Data

Artificial Intelligence and Machine Learning for EDGE Computing

How it Works and Creates Value

This book contains selected papers from International Symposium for Production Research 2021, held on October 7-9, 2021, online, Turkey. The book reports recent advances in production engineering and operations. It explores topics including production research; production management; operations management; industry 4.0; industrial engineering; mechanical engineering; engineering management; and operational research. Presenting real-life applications, case studies, and mathematical models, this book is of interest to researchers, academics, and practitioners in the field of production and operation engineering. It provides both the results of recent research and practical solutions to real-world problems.

THE SERIES: FRONTIERS IN COMPUTATIONAL INTELLIGENCE The series Frontiers In Computational Intelligence is envisioned to provide comprehensive coverage and understanding of cutting edge research in computational intelligence. It intends to augment the scholarly discourse on all topics relating to the advances in artificial life and machine learning in the form of metaheuristics, approximate reasoning, and robotics. Latest research findings are coupled with applications to varied domains of engineering and computer sciences. This field is steadily growing especially with the advent of novel machine learning algorithms being applied to different domains of engineering and technology. The series brings together leading researchers that intend to continue to advance the field and create a broad knowledge about the most recent research. Series Editor Dr. Siddhartha Bhattacharyya, CHRIST (Deemed to be University), Bangalore, India Editorial Advisory Board Dr. Elizabeth Behrman, Wichita State University, Kansas, USA Dr. Goran Klepac Dr. Leo Mrsic, Algebra University College, Croatia Dr. Aboul Ella Hassanien, Cairo University, Egypt Dr. Jan Platos, VSB-Technical University of Ostrava, Czech Republic Dr. Xiao-Zhi Gao, University of Eastern Finland, Finland Dr. Wellington Pinheiro dos Santos, Federal University of Pernambuco, Brazil

Blockchain technology is defined as a decentralized system of distributed registers that are used to record data transactions on multiple computers. The reason this technology has gained popularity is that you can put any digital asset or transaction in the blocking chain, the industry does not matter. Blockchain technology has infiltrated all areas of our lives, from manufacturing to healthcare and beyond. Cybersecurity is an industry that has been significantly affected by this technology and may be more so in the future.

Blockchain for Cybersecurity and Privacy: Architectures, Challenges, and Applications is an invaluable resource to discover the blockchain applications for cybersecurity and privacy. The purpose of this book is to improve the awareness of readers about blockchain technology applications for cybersecurity and privacy. This book focuses on the fundamentals, architectures, and challenges of adopting blockchain for cybersecurity. Readers will discover different applications of blockchain for cybersecurity in IoT and healthcare. The book also includes some case studies of the blockchain for e-commerce online payment, retention payment system, and digital forensics. The book offers comprehensive coverage of the most essential topics, including: Blockchain architectures and challenges Blockchain threats and vulnerabilities Blockchain security and potential

future use cases Blockchain for securing Internet of Things Blockchain for cybersecurity in healthcare Blockchain in facilitating payment system security and privacy This book comprises a number of state-of-the-art contributions from both scientists and practitioners working in the fields of blockchain technology and cybersecurity. It aspires to provide a relevant reference for students, researchers, engineers, and professionals working in this particular area or those interested in grasping its diverse facets and exploring the latest advances on the blockchain for cybersecurity and privacy.

There ' s a lot more to the blockchain than mining Bitcoin. This secure system for registering and verifying ownership and identity is perfect for supply chain logistics, health records, and other sensitive data management tasks. Blockchain in Action unlocks the full potential of this revolutionary technology, showing you how to build your own decentralized apps for secure applications including digital democracy, private auctions, and electronic record management. Summary There ' s a lot more to the blockchain than mining Bitcoin. This secure system for registering and verifying ownership and identity is perfect for supply chain logistics, health records, and other sensitive data management tasks. Blockchain in Action unlocks the full potential of this revolutionary technology, showing you how to build your own decentralized apps for secure applications including digital democracy, private auctions, and electronic record management. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Blockchain is more than just the tech behind Bitcoin—much more! Combining impenetrable security, decentralized transactions, and independently verifiable supply chains, blockchain applications have transformed currency, digital identity, and logistics. Platforms such as Ethereum and Hyperledger make it easy to get started by using familiar programming languages. About the book Blockchain in Action teaches you how to design and build blockchain-based decentralized apps, and is written in a clear, jargon-free style. First, you ' ll get an overview of how blockchain works. Next, you ' ll code your first smart contract using Ethereum and Solidity, adding a web interface, trust validation, and other features until your app is ready for deployment. The only thing you need to get started is standard hardware and open source software. What's inside Blockchain compared with other distributed systems Development in Solidity Identity, privacy, and security On-chain and off-chain data and operations About the reader For programmers who know JavaScript. About the author Bina Ramamurthy has thirty years of experience teaching distributed systems, data science, peer-to-peer networking, and blockchain. Table of Contents PART 1 - GETTING STARTED WITH BLOCKCHAIN PROGRAMMING 1 Blockchain basics 2 Smart contracts 3 Techniques for trust and integrity 4 From smart contracts to Dapps PART 2 - TECHNIQUES FOR END-TO-END DAPP DEVELOPMENT 5 Security and privacy 6 On-chain and off-chain data 7 Web3 and a channel Dapp 8 Going public with Infura PART 3 - A ROADMAP AND THE ROAD AHEAD 9 Tokenization of assets 10 Testing smart contracts 11 A roadmap to Dapp development 12 Blockchain: The Road ahead

Rebooting India through Practical Integral Humanism

Internet of Things, Infrastructures and Mobile Applications

Law and Practice

IoT-Based Architecture and Sustainable Buildings

Green IT Engineering: Social, Business and Industrial Applications

Cloud Computing For Dummies

Proceedings of the 16th International Conference on Broad-Band Wireless Computing, Communication and Applications (BWCCA-2021)

This book gathers outstanding research papers presented at the International Joint Conference on Computational Intelligence (IJCCI 2019), held at the University of Liberal Arts Bangladesh (ULAB), Dhaka, on 25-26 October 2019 and jointly organized by the University of Liberal Arts Bangladesh (ULAB), Bangladesh; Jahangirnagar University (JU), Bangladesh; and South Asian University (SAU), India. These proceedings present novel contributions in the areas of computational intelligence, and offer valuable reference material for advanced research. The topics covered include collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing.

As we witness a series of social, political, cultural, and economic changes/disruptions this book examines the Fourth Industrial Revolution and the way emerging technologies are impacting our lives and changing society. The Fourth Industrial Revolution is characterised by the emergence of new technologies that are blurring the boundaries between the physical, the digital, and the biological worlds. This book allows readers to explore how these technologies will impact peoples' lives by 2030. It helps readers to not only better understand the use and implications of emerging technologies, but also to imagine how their individual life will be shaped by them. The book provides an opportunity to see the great potential but also the threats and challenges presented by the emerging technologies of the Fourth Industrial Revolution, posing questions for the reader to think about what future they want. Emerging technologies, such as robotics, artificial intelligence, big data and analytics, cloud computing, nanotechnology, biotechnology, the Internet of Things, fifth-generation wireless technologies (5G), and fully autonomous vehicles, among others, will have a significant impact on every aspect of our lives, as such this book looks at their potential impact in the entire spectrum of daily life, including home life, travel, education and work, health, entertainment and social life. Providing an indication of what the world might look like in 2030, this book is essential reading for students, scholars, professionals, and policymakers interested in the nexus between emerging technologies and sustainable development, politics and society, and global governance.

Pandit Deendayal Upadhyaya is well-known for his holistic philosophy of 'Integral Humanism' and the supreme challenge of today; is to convert his ideological-base to actual practice. The key objective of Integral Humanism is to develop an indigenous economic model, based on Bharatiya culture, to solve the problems faced by India. An indigenous economic operating system, with Dharma as its central pillar, is the need of the hour so that India will emerge as the strongest economy of the world in a purely ethical manner. Here in this book the authors try to propose such a developmental strategy by blending Blockchain technologies with Integral Humanism.

This book gathers papers on interactive and collaborative mobile learning environments, assessment, evaluation and research methods in mobile learning, mobile learning models, theory and pedagogy, open and distance mobile learning, life-long and informal learning using mobile devices, wearables and the Internet of Things, game-based learning, dynamic learning experiences, mobile systems and services for opening up education, mobile healthcare and training, case studies on mobile learning, and 5G network infrastructure. Today, interactive mobile technologies have become the core of many—if not all—fields of society. Not only do the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions introduced on a nearly daily basis also boost this trend. Discussing and assessing key trends in the mobile field were the primary aims of the 13th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2019), which was held in Thessaloniki, Greece, from 31 October to 01 November 2019. Since being founded in 2006, the conference has been devoted to new approaches in interactive mobile technologies, with a focus on learning. The IMCL conferences have since become a central forum of the exchange of new research results and relevant trends, as well as best practices. The book's intended readership includes policymakers, academics, educators, researchers in pedagogy and learning theory, schoolteachers, further education lecturers, practitioners in the learning industry, etc.

Innovation Orientation in Business Services

Advances on Broad-Band Wireless Computing, Communication and Applications

Cryptocurrencies and Blockchain Technology Applications

IC-BCT 2019

Implications for Practice

Proceedings of the International Conference on Blockchain Technology

Selected Papers from ISPR2021, October 07-09, 2021 Online, Turkey

This timely book proposes a new perspective on building innovation in companies providing business services. Implementing an innovation orientation paradigm based on six pillars – strategy, organisational culture, human resources, structure and process, marketing, and technology – it sets out a framework for achieving innovation through knowledge management.

This book presents the select proceedings of the International Conference on Evolution in Manufacturing (ICEM 2020), and examines a range of areas including evolution in manufacturing, intelligent networks, bio-Inspired models and algorithms, internet-of-things, and cyber manufacturing. This book intends to provide a contribution to the domain of collaborative and intelligent networks and systems to fill the gap in theories and practical applications through suitable methods and solutions applicable to a wide range of instances. Various topics covered include broad range of research challenges in the fields of artificial intelligence and addressing current and future trends in industry 4.0 oriented scenario, data analytics and big data, operation and manufacturing management. The book will be a valuable reference for beginners, researchers and professionals interested in artificial intelligence in engineering and production management and allied fields.

Cryptoassets represent one of the most high profile financial products in the world, and fastest growing financial products in history. From Bitcoin, Ethereum and Ripple's XRP-so called "utility tokens" used to access financial services-to initial coin offerings that in 2017 rivalled venture capital in money raised for startups, with an estimated \$5.6 billion (USD) raised worldwide across 435 ICOs. All the while, technologists have hailed the underlying blockchain technology for these assets as potentially game changing applications for financial payments and record-keeping. At the same time, cryptoassets have produced considerable controversy. Many have turned out to be lacklustre investments for investors. Others, especially ICOs, have also attracted noticeable fraud, failing firms, and alarming lapses in information-sharing with investors. Consequently, many commentators around the world have pressed that ICO tokens be considered securities, and that concomitant registration and disclosure requirements attach to their sales to the public. This volume assembles an impressive group of scholars, businesspersons and regulators to collectively write on cryptoassets. This volume represents perspectives from across the regulatory ecosystem, and includes technologists, venture capitalists, scholars, and practitioners in securities law and central banking.

This book describes the implementation of green IT in various human and industrial domains. Consisting of four sections: “Development and Optimization of Green IT”, “Modelling and Experiments with Green IT Systems”, “Industry and Transport Green IT Systems”, “Social, Educational and Business Aspects of Green IT”, it presents results in two areas – the green components, networks, cloud and IoT systems and infrastructures; and the industry, business, social and education domains. It discusses hot topics such as programmable embedded and mobile systems, sustainable software and data centers, Internet servicing and cyber social computing, assurance cases and lightweight cryptography in context of green IT. Intended for university students, lecturers and researchers who are interested in power saving and sustainable computing, the book also appeals to engineers and managers of companies that develop and implement energy efficient IT applications.

Technology in Supply Chain Management and Logistics

The Impact on U.S. National and International Security

Tomorrow's People and New Technology

Second EAI International Conference, AFRICATEK 2018, Cotonou, Benin, May 29–30, 2018, Proceedings

Blockchain for Business

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

Emerging Technologies for Developing Countries

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

Find out what Blockchain is, how it works, and what it can do for you Blockchain is the technology behind Bitcoin, the revolutionary 'virtual currency' that's changing the way people do business. While Bitcoin has enjoyed some well-deserved hype, Blockchain may be Bitcoin's most vital legacy. Blockchain For Dummies is the ideal starting place for business pros looking to gain a better understanding of what Blockchain is, how it can improve the integrity of their data, and how it can work to fundamentally change their business and enhance their data security. Blockchain For Dummies covers the essential things you need to know about this exciting technology's promise of revolutionizing financial transactions, data security, and information integrity. The book covers the technologies behind Blockchain, introduces a variety of existing Blockchain solutions, and even walks you through creating a small but working Blockchain-based application. Blockchain holds the promise to revolutionize a wide variety of businesses. Get in the know about Blockchain now with Blockchain For Dummies and be ready to make the changes to business that your colleagues and competitors will later wish they'd done. Discover ten ways Blockchain can change business Find out how to apply a Blockchain solution See how to make data more secure Learn how to work with vendors Filled with vital information and tips on how this paradigm-changing technology can transform your business for the better, this book will not only show you Blockchain's full potential, but your own as well!

Learn and innovate with the latest technologies in nursing and healthcare! The first text of its kind in nursing, this book provides up-to-date information on innovative, smart technologies that nurses can use in clinical and nonclinical settings to keep up with the changing face of healthcare. This compelling guide will provide you with information about exciting areas of technology that have great potential to improve patient care. Subjects include big data, artificial intelligence, virtual and augmented realities, connected technologies, and precision health. There is also discussion of the shift of healthcare delivery into the community, with an outlook on improving outcomes and enhancing practice. Each chapter focuses on developing competency in current and future real-world applications of emerging technologies. Early chapters describe how to utilize new tools, processes, models, and products to serve the quadruple aim of better managing populations, decreasing costs, and enhancing both the patient's and the clinician's experience. The culture of innovation coincides with the ever-changing politics of healthcare in later chapters, which then evolves into the entrepreneurial opportunities for nurses. This text is an essential introduction for all practicing nurses, nurse leaders, and nurses teaching health information technology or informatics courses. Key Features: Written by nurses for nurses The latest information on emerging health information technology and associated nursing implications Compelling cases show the dramatic effect of innovations on value-based care Learn how applying novel technologies can improve patient care Qualified instructors have access to supplementary materials, including PowerPoint slides and an Instructor's Manual This book introduces readers to some of the most significant advances in core computer science-based technologies. At the dawn of the 4th Industrial Revolution, the field of computer science-based technologies is growing continuously and rapidly, and is developing both in itself and in terms of its applications in many other disciplines. Written by leading experts and consisting of 18 chapters, the book is divided into seven parts: (1) Computer Science-based Technologies in Education, (2) Computer Science-based Technologies in Risk Assessment and Readiness, (3) Computer Science-based Technologies in IoT, Blockchains and Electronic

Money, (4) Computer Science-based Technologies in Mobile Computing, (5) Computer Science-based Technologies in Scheduling and Transportation, (6) Computer Science-based Technologies in Medicine and Biology, and (7) Theoretical Advances in Computer Science with Significant Potential Applications in Technology. Featuring an extensive list of bibliographic references at the end of each chapter to help readers probe further into the application areas of interest to them, this book is intended for professors, researchers, scientists, engineers and students in computer science-related disciplines. It is also useful for those from other disciplines wanting to become well versed in some of the latest computer science-based technologies.

IJCCI 2019

Digital Copyright

Transformations Through Blockchain Technology

Cryptoassets

Blockchain for Cybersecurity and Privacy

Proceedings of the 13th IMCL Conference

Proceedings of the 11th International Conference on Innovations in Bio-Inspired Computing and Applications (IBICA 2020) held during December 16-18, 2020

Unravel the mysteries of blockchains Blockchain technologies are disrupting some of the world's biggest industries. Blockchain For Dummies provides a fast way to catch up with the essentials of blockchain. Written by an author involved in founding and analyzing blockchain solutions, this book serves to help those who need to understand what a blockchain can do (and can't do). This revised edition of Blockchain For Dummies, 2nd Edition, shows how blockchain securely records data across independent networks. It offers a tour of some of the world's best-known blockchains, including those that power Bitcoin and other cryptocurrencies. It also shows how blockchain solutions are affecting the worlds of finance, supply chain management, insurance, and governments. Get a clear picture of what a blockchain can do Learn how blockchains rule crypto. Discover current blockchains and how each of them work Test blockchain apps Blockchain has become the critical buzzword in the world of financial technology and transaction security — and now, in the help of this essential guide.

This book is designed for those who want a better grasp of the nature and existential threat of today's information wars. It uses a conceptual approach to explain the relevant concepts as well as the responsibilities with which policy makers struggle and practitioners must work.

Technology in Supply Chain Management and Logistics: Current Practice and Future Applications analyzes the implications of these technologies in a variety of supply chain settings, including blockchain (IoT), inventory optimization, and medical supply chain. This book outlines how technologies are being utilized for product planning, materials management and inventory, transportation and distribution, maintenance, the environment, and in health and safety. Readers will gain a better understanding of the implications of these technologies with respect to value creation, operational effectiveness, migration and general industry acceptance. In addition, the book features case studies, providing a real-world look at supply chain technology implementations, their necessary training requirements, and how technologies integrate with existing business technologies. Identifies emerging supply chain technologies and trends in technology acceptance and utilization levels across various industry sectors. Provides guidance on technology investment decisions, procurement, best values, and how they can be utilized for logistics operations Features videos showing technology application, including optimization software, 3D printing, autonomous vehicles, drones and machine learning

Artificial Intelligence and Machine Learning for Predictive and Analytical Rendering in Edge Computing focuses on the role of AI and machine learning as it impacts and works alongside Edge Computing. With the growing number of devices and applications in diversified domains of industry, including gaming, speech recognition, medical diagnostics, robotics and computer vision and how they are being driven by Artificial Intelligence, Machine Learning and distributed computing, may it be Cloud Computing or the evolving Fog and Edge Computing paradigms. Challenges covered include remote storage and computing, the transportation of data from End nodes to Cloud leading in latency issues, security issues in transporting sensitive medical and financial information across larger gaps in points of data generation, and design features of Edge nodes to store and run AI/ML algorithms for effective rendering. Provides a reference handbook on the evolution of distributed systems, including Cloud, Fog and Edge Computing. Artificial Intelligence and Machine Learning techniques for effective predictions at Edge rather than Cloud or remote Data Centers Provides insight into the features and constraints in Edge Computing, hardware constraints and the technological/architectural developments that shall overcome those constraints

Blockchain and Crypto Currency

Emerging Technologies for Nurses

Recent Advances in Industrial Production

Future Trends and Enabling Technologies

Proceedings of International Joint Conference on Computational Intelligence

Current Practice and Future Applications

Architectures, Challenges, and Applications

This book introduces to blockchain and deep learning and explores and illustrates the current and new trends that integrate them. The pace and speeds for connectivity are certain on the ascend. Blockchain and deep learning are twin technologies that are integral to integrity and relevance of network contents. Since they are data-driven technologies, rapidly growing interests exist to incorporate them in efficient and secure data sharing and analysis applications. Blockchain and deep learning are sentinel contemporary research technologies. This book provides a comprehensive reference for blockchain and deep learning by covering all important topics. It identifies the bedrock

principles and forward projecting methodologies that illuminate the trajectory of developments for the decades ahead.

The easy way to understand and implement cloud computing technology written by a team of experts Cloud computing can be difficult to understand at first, but the cost-saving possibilities are great and many companies are getting on board. If you've been put in charge of implementing cloud computing, this straightforward, plain-English guide clears up the confusion and helps you get your plan in place. You'll learn how cloud computing enables you to run a more green IT infrastructure, and access technology-enabled services from the Internet ("in the cloud") without having to understand, manage, or invest in the technology infrastructure that supports them. You'll also find out what you need to consider when implementing a plan, how to handle security issues, and more. Cloud computing is a way for businesses to take advantage of storage and virtual services through the Internet, saving money on infrastructure and support This book provides a clear definition of cloud computing from the utility computing standpoint and also addresses security concerns Offers practical guidance on delivering and managing cloud computing services effectively and efficiently Presents a proactive and pragmatic approach to implementing cloud computing in any organization Helps IT managers and staff understand the benefits and challenges of cloud computing, how to select a service, and what's involved in getting it up and running Highly experienced author team consults and gives presentations on emerging technologies Cloud Computing For Dummies gets straight to the point, providing the practical information you need to know.

Summary If you think Bitcoin is just an alternative currency for geeks, it's time to think again. Grokking Bitcoin opens up this powerful distributed ledger system, exploring the technology that enables applications both for Bitcoin-based financial transactions and using the blockchain for registering physical property ownership. With this fully illustrated, easy-to-read guide, you'll finally understand how Bitcoin works, how you can use it, and why you can trust the blockchain. Foreword by David A. Harding, Contributor to Bitcoin documentation. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Inflation, depressed economies, debased currencies ... these are just a few of the problems centralized banking has caused throughout history. Bitcoin, a digital currency created with the ambition to shift control away from change-prone governments, has the potential to bring an end to those problems once and for all. It's time to find out how it can help you. About the Book Grokking Bitcoin explains why Bitcoin's supporters trust it so deeply, and why you can too. This approachable book will introduce you to Bitcoin's groundbreaking technology, which is the key to this world-changing system. This illustrated, easy-to-read guide prepares you for a new way of thinking with easy-to-follow diagrams and exercises. You'll discover how Bitcoin mining works, how to accept Bitcoin, how to participate in the Bitcoin network, and how to set up a digital wallet. What's inside Bitcoin transactions The blockchain Bitcoin mining Bitcoin wallets About the Reader Intended for anyone interested in learning about Bitcoin technology. While a basic understanding of technical concepts is beneficial, no programming skills are necessary. About the Author Kalle Rosenbaum is a computer scientist, an avid Bitcoin supporter, and the founder of Propeller, a Bitcoin consultancy. Table of Contents Introduction to Bitcoin Cryptographic hash functions and digital signatures Addresses Wallets Transactions The blockchain Proof of work Peer-to-peer network Transactions revisited Segregated witness Bitcoin upgrades

This book constitutes the refereed proceedings of the Second International EAI Conference on Emerging Technologies for Developing Countries, AFRICATEK 2018, held in Cotonou, Benin, in May 2018. The 12 revised full papers and 4 short papers were selected from 27 submissions. The papers are organized thematically in tracks, starting with ITS and security, applications and IT services, gaming and user experience.

The New Digital Revolution

Big Data Security

Digitizing Production Systems

Capturing Value in Digital Health Eco-Systems

Blockchain For Dummies

Learn Bitcoin and Blockchain

DIGITAL CITIES ROADMAP This book details applications of technology to efficient digital city infrastructure and its planning, including smart buildings. Rapid urbanization, demographic changes, environmental changes, and new technologies are changing the views of urban leaders on sustainability, as well as creating and providing public services to tackle these new dynamics. Sustainable development is the objective by which the processes of planning, implementing projects, and development is aimed at meeting the needs of modern communities without compromising the potential of future generations. Smart Cities is the answer to these problems. Digital Cities Roadmap provides an in-depth analysis of design technologies that lay a solid foundation for sustainable buildings. The book also highlights automation technologies that help save energy, as well as various performance indicators needed to make construction easier. The book aims to create a strong research community, to have a deep understanding of the latest knowledge in the field of energy and comfort, to offer solid ideas in the nearby future for sustainable and resilient buildings. These buildings will help the city grow as a smart city. The smart focus on low energy consumption, renewable energy, and a small carbon footprint. Audience The information provided in this book will be of value to researchers, academicians and industry professionals in IoT-based architecture and sustainable buildings, energy efficiency and various tools and methods used to develop green technologies for construction in smart cities.

Get up and running with the fundamentals of Bitcoin and blockchain Key Features Learn quick, effective, and easy ways to master blockchain and Bitcoin Understand the impact of decentralization and ways to tackle it Explore the future of Bitcoin and blockchain and implement them in a business network Book Description Blockchain is a distributed database that enables permanent, transparent,

storage of data. Blockchain technology uses cryptography to keep data secure. Learn Bitcoin and Blockchain is the perfect entry point to the world of decentralized databases. This book will take you through the blockchain database, followed by advanced implementations of the blockchain concept. You will learn about Bitcoin basics and their technical operations. As you make your way through you will gain insight into this leading technology and its implementation in the real world. You will also cover the technical foundation of blockchain and understand the fundamentals of cryptography and how data is kept secure. In the concluding chapters, you'll get to grips with the mechanisms behind cryptocurrencies. By the end of this book, you will have learned about decentralized digital money, advanced blockchain concepts, and Bitcoin and blockchain security. What you will learn Understand the concept of decentralization, its impact, its relationship with blockchain technology and its pros and cons Learn blockchain architectures and security Explore Bitcoin and blockchain security Implement blockchain technology and its features commercially Understand why consensus protocols are critical in blockchain and its application on the future of blockchain Who this book is for Learn Bitcoin and Blockchain is for anyone who wants to quickly understand and expand their knowledge of how blockchain and Bitcoin work and how they are applied commercially. No prior knowledge of blockchain and Bitcoin is required.

"Learn to understand the ins and outs of the Bitcoin market, set up your Bitcoin wallet and get started, [and] protect yourself against fraud and theft"--Cover.

The Cyber Threat and Globalization

Digital Cities Roadmap