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Building Decentralized Blockchain Applications Learn How to Use Blockchain as the Foundation for Next-Gen Apps (English Edition) [BPB Publications](#) Build decentralized applications using Blockchain's core technology **KEY FEATURES** ● Explore the engineering mechanism of Blockchain, Cryptocurrency, and Ethereum. ● Know-how of peer-to-peer networks, IPFS, and decentralised databases. ● Explore the working of DApps and build your own blockchain app. **DESCRIPTION** Blockchain is a revolutionary technology that shook the core of the finance world. However, Blockchain is not just about Cryptocurrency. This book focuses on Blockchain, its features, and the core technologies that are used to build the Blockchain network. In the first section, you will learn about Blockchain in-depth. Then, the book covers the two most popular Cryptocurrencies - Bitcoin and Ethereum. You will learn how these currencies work and how you can build your applications using these currencies. Moving on, you will learn about the decentralized databases. Decentralized databases can be used to build next-generation software applications. You will learn about various databases and how to use them in detail. Lastly, you will learn how the existing decentralized applications work, their architecture, and how they are incorporated into the application for the end-user. **WHAT YOU WILL LEARN** ● Learn to build your own P2P network. ● Cutting-edge coverage on how cryptocurrency works. ● Learn smart techniques to develop your own DApps on Ethereum platform. ● Learn to use decentralized databases including OrbitDB. **WHO THIS BOOK IS FOR** This book is for anyone who wants to become a Blockchain developer or wants to build an application using Blockchain. Full stack developers, software engineers, web programmers, and beginners who are interested in Blockchain can find this book a true handy guide to begin their career in Blockchain. **TABLE OF CONTENTS** 1. Introduction to Blockchain and decentralized network 2. Ethereum, Smart Contracts and DApps 3. Interplanetary file system 4. OrbitDB - Peer to peer distributed database 5. BigchainDB 6. TiesDB 7. BluZelle 8. Amazon QLDB 9. OpenBazaar 10. DTube 11. Ocean protocol Internet of Things, Smart Spaces, and Next Generation Networks and Systems 21st International Conference, NEW2AN 2021, and 14th Conference, ruSMART 2021, St. Petersburg, Russia, August 26-27, 2021, Proceedings [Springer Nature](#) This book constitutes the joint refereed proceedings of the 21st International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networks and Systems, NEW2AN 2021, and the 14th Conference on Internet of Things and Smart Spaces, ruSMART 2021. The conference was held virtually due to the COVID-19 pandemic. The 41 revised full papers presented were carefully reviewed and selected from 118 submissions. **Trust Models for Next-Generation Blockchain Ecosystems** [Springer Nature](#) **Principles of Sustainable Project Management** [Goodfellow Publishers Ltd](#) A unique approach to managing projects combining the principles of sustainable management theory with the currently established project management theory, in an applied context. Written by a team of international experts, it tackles issues such as digital transformation, smart cities, green project management, CSR and more. **Decentralized Computing Using Blockchain Technologies and Smart Contracts: Emerging Research and Opportunities** [IGI Global](#) Recent innovations have created significant developments in data storage and management. These new technologies now allow for greater security in databases and other applications. **Decentralized Computing Using Blockchain Technologies and Smart Contracts: Emerging Research and Opportunities** is a concise and informative source of academic research on the latest developments in block chain innovation and their application in contractual agreements. Highlighting pivotal discussions on topics such as cryptography, programming techniques, and decentralized computing, this book is an ideal publication for researchers, academics, professionals, students, and practitioners seeking content on utilizing block chains with smart contracts. **Soft Computing: Theories and Applications Proceedings of SoCTA 2020, Volume 1** [Springer Nature](#) This book focuses on soft computing and how it can be applied to solve real-world problems arising in various domains, ranging from medicine and healthcare, to supply chain management, image processing and cryptanalysis. It gathers high-quality papers presented at the International Conference on Soft Computing: Theories and Applications (SoCTA 2020), organized online. The book is divided into two volumes and offers valuable insights into soft computing for teachers and researchers alike; the book will inspire further research in this dynamic field. **Proceedings of the Future Technologies Conference (FTC) 2020, Volume 3** [Springer Nature](#) This book provides the state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research. The fifth 2020 Future Technologies Conference was organized virtually and received a total of 590 submissions from academic pioneering researchers, scientists, industrial engineers, and students from all over the world. The submitted papers covered a wide range of important topics including but not limited to computing, electronics, artificial intelligence, robotics, security and communications and their applications to the real world. After

a double-blind peer review process, 210 submissions (including 6 poster papers) have been selected to be included in these proceedings. One of the meaningful and valuable dimensions of this conference is the way it brings together a large group of technology geniuses in one venue to not only present breakthrough research in future technologies, but also to promote discussions and debate of relevant issues, challenges, opportunities and research findings. The authors hope that readers find the book interesting, exciting and inspiring. **Smart Legal Contracts Computable Law in Theory and Practice** [Oxford University Press](#) **Smart Legal Contracts: Computable Law in Theory and Practice** is a landmark investigation into one of the most important trends at the interface of law and technology: the effort to harness emerging digital technologies to change the way that parties form and perform contracts. While developments in distributed ledger technology have brought the topic of 'smart contracts' into the mainstream of legal attention, this volume takes a broader approach to ask how computers can be used in the contracting process. This book assesses how contractual promises are expressed in software and how code-based artefacts can be incorporated within more conventional legal structures. With incisive contributions from members of the judiciary, legal scholars, practitioners, and computer scientists, this book sets out to frame the borders of an emerging area of law and start a more productive dialogue between the various disciplines involved in the evolution of contracts as software. It provides the first step towards a more disciplined approach to computational contracts that avoids the techno-legal ambiguities of 'smart contracts' and reveals an emerging taxonomy of approaches to encoding contracts in whole or in part. Conceived and written during a time when major legal systems began to engage with the advent of contracts in computable form, and aimed at a fundamental level of enquiry, this collection will provide essential insight into future trends and will provide a point of orientation for future scholarship and innovation. **Blockchain and Trustworthy Systems First International Conference, BlockSys 2019, Guangzhou, China, December 7-8, 2019, Proceedings** [Springer Nature](#) This book constitutes the thoroughly refereed post conference papers of the First International Conference on Blockchain and Trustworthy Systems, Blocksys 2019, held in Guangzhou, China, in December 2019. The 50 regular papers and the 19 short papers were carefully reviewed and selected from 130 submissions. The papers are focus on Blockchain and trustworthy systems can be applied to many fields, such as financial services, social management and supply chain management. **Financial Cryptography and Data Security FC 2017 International Workshops, WAHC, BITCOIN, VOTING, WTSC, and TA, Sliema, Malta, April 7, 2017, Revised Selected Papers** [Springer](#) This book constitutes the refereed proceedings of 5 workshops held at the 21st International Conference on Financial Cryptography and Data Security, FC 2017, in Sliema, Malta, in April 2017. The 39 full papers presented were carefully reviewed and selected from 96 submissions. They feature the outcome of the 5th Workshop on Encrypted Computing and Applied Homomorphic Cryptography, WAHC 2017, the 4th Workshop on Bitcoin and Blockchain Research, BITCOIN 2017, the Second Workshop on Secure Voting Systems, VOTING 2017, the First Workshop on Trusted Smart Contracts, WTSC 2017, and the First Workshop on Targeted Attacks, TA 2017. The papers are grouped in topical sections named: encrypted computing and applied homomorphic cryptography; bitcoin and blockchain research; advances in secure electronic voting schemes; trusted smart contracts; targeted attacks. **Blockchain Technology and Computational Excellence for Society 5.0** [IGI Global](#) Blockchain is the most disruptive technology to emerge in the last decade. The evolution of cryptocurrencies has carried with it a revolution in digital economics that has catapulted the application of blockchain technology to a new level across a variety of industries, including banking, security, networking, and more. **Blockchain Technology and Computational Excellence for Society 5.0** closes the gap in existing literature by presenting a selection of chapters that not only shape the research domain, but also present supportive real-life problems and pragmatic solutions. This book presents a variety of highly relevant themes, concepts, and applications in blockchain, discussing topics such as cyber security, digital currencies, and intelligent networks, fueling awareness and interest. With its insight into various platforms, techniques, and tools, this book serves as a valuable resource for academicians, researchers, research scholars, postgraduates, professors, computer scientists, and technology enthusiasts. **Blockchain + Antitrust The Decentralization Formula** [Edward Elgar Publishing](#) This innovative and original book explores the relationship between blockchain and antitrust, highlighting the mutual benefits that stem from cooperation between the two and providing a unique perspective on how law and technology could cooperate. **Digital Technologies and the Law of Obligations** [Routledge](#) **Digital Technologies and the Law of Obligations** critically examines the emergence of new digital technologies and the challenges they pose to the traditional law of obligations, and discusses the extent to which existing contract and tort law rules and doctrines are equipped to meet these new challenges. This book covers various contract and tort law issues raised by emerging technologies - including distributed ledger technology, blockchain-based smart contracts, and artificial intelligence - as well as by the evolution of the internet into a participative web fuelled by user-generated content, and by the rise of the modern-day collaborative economy facilitated by digital technologies. Chapters address these topics from the perspective of both the common law and the civil law tradition. While mostly focused on the current state of affairs and recent debates and initiatives within the European Union regulatory framework, contributors also discuss the central themes from the perspective of the national law of obligations, examining the adaptability of existing legal doctrines to contemporary challenges, addressing the occasional legislative attempts to deal with the private law aspects of these challenges, and pointing to issues where legislative interventions would be most welcomed. Case studies are drawn from the United States, Singapore, and other parts of the common law world. **Digital Technologies and the Law of Obligations** will be of interest to legal scholars and researchers in the fields of contract law, tort law, and digital law, as well as to legal practitioners and members of law reform bodies. **Next Generation Internet of Things - Distributed Intelligence at the Edge and Human-Machine Interactions** [CRC Press](#) This book provides an overview of the next generation Internet of Things (IoT), ranging from research, innovation, development priorities, to enabling technologies in a global context. It is intended as a standalone in a series covering the activities of the Internet of Things European Research Cluster (IERC), including research, technological innovation, validation, and deployment. The following chapters build on the

ideas put forward by the European Research Cluster, the IoT European Platform Initiative (IoT-EPI), the IoT European Large-Scale Pilots Programme and the IoT European Security and Privacy Projects, presenting global views and state-of-the-art results regarding the next generation of IoT research, innovation, development, and deployment. The IoT and Industrial Internet of Things (IIoT) are evolving towards the next generation of Tactile IoT/IIoT, bringing together hyperconnectivity (5G and beyond), edge computing, Distributed Ledger Technologies (DLTs), virtual/ and augmented reality (VR/AR), and artificial intelligence (AI) transformation. Following the wider adoption of consumer IoT, the next generation of IoT/IIoT innovation for business is driven by industries, addressing interoperability issues and providing new end-to-end security solutions to face continuous threats. The advances of AI technology in vision, speech recognition, natural language processing and dialog are enabling the development of end-to-end intelligent systems encapsulating multiple technologies, delivering services in real-time using limited resources. These developments are focusing on designing and delivering embedded and hierarchical AI solutions in IoT/IIoT, edge computing, using distributed architectures, DLTs platforms and distributed end-to-end security, which provide real-time decisions using less data and computational resources, while accessing each type of resource in a way that enhances the accuracy and performance of models in the various IoT/IIoT applications. The convergence and combination of IoT, AI and other related technologies to derive insights, decisions and revenue from sensor data provide new business models and sources of monetization. Meanwhile, scalable, IoT-enabled applications have become part of larger business objectives, enabling digital transformation with a focus on new services and applications. Serving the next generation of Tactile IoT/IIoT real-time use cases over 5G and Network Slicing technology is essential for consumer and industrial applications and support reducing operational costs, increasing efficiency and leveraging additional capabilities for real-time autonomous systems. New IoT distributed architectures, combined with system-level architectures for edge/fog computing, are evolving IoT platforms, including AI and DLTs, with embedded intelligence into the hyperconnectivity infrastructure. The next generation of IoT/IIoT technologies are highly transformational, enabling innovation at scale, and autonomous decision-making in various application domains such as healthcare, smart homes, smart buildings, smart cities, energy, agriculture, transportation and autonomous vehicles, the military, logistics and supply chain, retail and wholesale, manufacturing, mining and oil and gas.

Principles of Security and Trust 6th International Conference, POST 2017, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017, Uppsala, Sweden, April 22-29, 2017, Proceedings [Springer](#) This book constitutes the proceedings of the 6th International Conference on Principles of Security and Trust, POST 2017, which took place in Uppsala, Sweden in April 2017, held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017. The 14 papers presented in this volume were carefully reviewed and selected from 40 submissions. They were organized in topical sections named: information flow; security protocols; security policies; and information leakage.

Business Process Management 15th International Conference, BPM 2017, Barcelona, Spain, September 10-15, 2017, Proceedings [Springer](#) This book constitutes the proceedings of the 15th International Conference on Business Process Management, BPM 2017, held in Barcelona, Spain, in September 2017. The 19 revised full papers presented were carefully reviewed and selected from 116 initial submissions. The topics selected by the authors demonstrate an increasing interest of the research community in the area of process mining, resonated by an equally fast-growing uptake by different industry sectors. The papers are organized in topical sections on process modeling; process mining; assorted BPM topics; decisions and understanding; and process knowledge.

Innovative Data Communication Technologies and Application ICIDCA 2019 [Springer Nature](#) This book presents emerging concepts in data mining, big data analysis, communication, and networking technologies, and discusses the state-of-the-art in data engineering practices to tackle massive data distributions in smart networked environments. It also provides insights into potential data distribution challenges in ubiquitous data-driven networks, highlighting research on the theoretical and systematic framework for analyzing, testing and designing intelligent data analysis models for evolving communication frameworks. Further, the book showcases the latest developments in wireless sensor networks, cloud computing, mobile network, autonomous systems, cryptography, automation, and other communication and networking technologies. In addition, it addresses data security, privacy and trust, wireless networks, data classification, data prediction, performance analysis, data validation and verification models, machine learning, sentiment analysis, and various data analysis techniques.

Blockchain and Crypto Currency Building a High Quality Marketplace for Crypto Data [Springer Nature](#) 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.

Principles of Internet of Things (IoT) Ecosystem: Insight Paradigm [Springer Nature](#) This book discusses the evolution of future-generation technologies through the Internet of things, bringing together all the related technologies on a single platform to offer valuable insights for undergraduate and postgraduate students, researchers, academics and industry practitioners. The book uses data, network engineering and intelligent decision- support system-by-design principles to design a reliable IoT-enabled ecosystem and to implement cyber-physical pervasive infrastructure solutions. It takes readers on a journey that begins with understanding the insight paradigm of IoT-enabled technologies and how it can be applied. It walks readers through engaging with real-time challenges and

building a safe infrastructure for IoT-based, future-generation technologies. The book helps researchers and practitioners to understand the design architecture through IoT and the state of the art in IoT countermeasures. It also highlights the differences between heterogeneous platforms in IoT-enabled infrastructure and traditional ad hoc or infrastructural networks, and provides a comprehensive discussion on functional frameworks for IoT, object identification, IoT domain model, RFID technology, wearable sensors, WBAN, IoT semantics, knowledge extraction, and security and privacy issues in IoT-based ecosystems. Written by leading international experts, it explores IoT-enabled insight paradigms, which are utilized for the future benefit of humans. It also includes references to numerous works. Divided into stand-alone chapters, this highly readable book is intended for specialists, researchers, graduate students, designers, experts, and engineers involved in research on healthcare-related issues. **Business Process Management: Blockchain and Robotic Process Automation Forum BPM 2021 Blockchain and RPA Forum, Rome, Italy, September 6-10, 2021, Proceedings** [Springer Nature](#) This book constitutes the proceedings of the Blockchain and RPA Forum, held as part of the 19th International Conference on Business Process Management, BPM 2021, which took place during September 6-10, 2021, in Rome, Italy. The Blockchain Forum and the RPA Forum have in common that they are centered around an emerging and exciting technology. The blockchain is a sophisticated distributed ledger technology, while RPA software allows for mimicking human, repetitive actions. Each of these have the potential to fundamentally change how business processes are being orchestrated and executed in practice. The 8 papers presented in this volume were carefully reviewed and selected from a total of 14 submissions. **An Introduction to Blockchain and its Applications. With a Focus on Energy Management** [diplom.de](#) The interest in Blockchain technology and its ability of creating consensus in decentralized networks is significantly increasing. This book provides a detailed consideration of the Blockchain technology and its possible implementations within the scope of energy management. Before investigating the functionality of a Blockchain, the basic mathematical problem that Blockchain solves, known as the Byzantine Generals Problem, is examined. Furthermore, this book describes the Ethereum platform, as most Blockchain energy applications are based on Smart Contracts stored in the Ethereum Blockchain. Afterwards, a descriptive insight into ongoing projects in the field of energy management is given. Conclusively, it is illustrated how a local peer-to-peer energy market can be implemented, based on the Ethereum Blockchain. **Decentralised Internet of Things A Blockchain Perspective** [Springer Nature](#) This book presents practical as well as conceptual insights into the latest trends, tools, techniques and methodologies of blockchains for the Internet of Things. The decentralised Internet of Things (IoT) not only reduces infrastructure costs, but also provides a standardised peer-to-peer communication model for billions of transactions. However, there are significant security challenges associated with peer-to-peer communication. The decentralised concept of blockchain technology ensures transparent interactions between different parties, which are more secure and reliable thanks to distributed ledger and proof-of-work consensus algorithms. Blockchains allow trustless, peer-to-peer communication and have already proven their worth in the world of financial services. The blockchain can be implanted in IoT systems to deal with the issues of scale, trustworthiness and decentralisation, allowing billions of devices to share the same network without the need for additional resources. This book discusses the latest tools and methodology and concepts in the decentralised Internet of Things. Each chapter presents an in-depth investigation of the potential of blockchains in the Internet of Things, addressing the state-of-the-art in and future perspectives of the decentralised Internet of Things. Further, industry experts, researchers and academicians share their ideas and experiences relating to frontier technologies, breakthrough and innovative solutions and applications. **Science of Cyber Security 4th International Conference, SciSec 2022, Matsue, Japan, August 10-12, 2022, Revised Selected Papers** [Springer Nature](#) This book constitutes the proceedings of the 4th International Conference on Science of Cyber Security, SciSec 2022, held in Matsu, Japan in August 2022. The 36 full papers presented in this volume were carefully reviewed and selected from 88 submissions. The papers are organized in the following topical sections: blockchain and applications; cryptography and applications; network security; cyber-physical system; malware; mobile system security; system and web security; security in financial industry; social engineering and personalized security; privacy and anonymity. **Mastering Blockchain A deep dive into distributed ledgers, consensus protocols, smart contracts, DApps, cryptocurrencies, Ethereum, and more, 3rd Edition** [Packt Publishing Ltd](#) **Mastering Blockchain, Third Edition** is the blockchain bible to equip you with extensive knowledge of distributed ledgers, cryptocurrencies, smart contracts, consensus algorithms, cryptography and blockchain platforms such as Ethereum, Bitcoin, and many more. **Advances in Computing and Data Sciences First International Conference, ICACDS 2016, Ghaziabad, India, November 11-12, 2016, Revised Selected Papers** [Springer](#) This book constitutes the refereed proceedings of the First International Conference on Advances in Computing and Data Sciences, ICACDS 2016, held in Ghaziabad, India, in November 2016. The 64 full papers were carefully reviewed and selected from 502 submissions. The papers are organized in topical sections on Advanced Computing; Communications; Informatics; Internet of Things; Data Sciences. **The Future of Law and eTechnologies** [Springer](#) This book presents groundbreaking discussions on e-residency, cryptocurrencies, scams, smart contracts, 3D printing, software agents, digital evidence and e-governance at the intersection of law, legal policies and modern technologies. The reader benefits from cutting-edge analyses that offer ideas and solutions to some of the most pressing issues caused by e-technologies. This collection is a useful tool for law and IT practitioners and an inspiring source for interdisciplinary research. Besides serving as a practical guideline, this book also reflects theoretical dimensions of future perspectives, as new technologies are not meant to change common values but to accommodate them. **ICT with Intelligent Applications Proceedings of ICTIS 2022, Volume 1** [Springer Nature](#) This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Sixth International Conference on Information and Communication Technology for Intelligent Systems (ICTIS 2022), held in Ahmedabad, India. The book is divided into two volumes. It discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable

resource for researchers and practitioners alike. Information Systems Security 15th International Conference, ICISS 2019, Hyderabad, India, December 16-20, 2019, Proceedings [Springer Nature](#) This book constitutes the proceedings of the 15th International Conference on Information Systems Security, ICISS 2019, held in Hyderabad, India, in December 2019. The 13 revised full papers and 4 short papers presented in this book together with 4 abstracts of invited talks were carefully reviewed and selected from 63 submissions. The papers cover topics such as: smart contracts; formal techniques; access control; machine learning; distributed systems; cryptography; online social networks; images and cryptography.

Principles of Blockchain Systems [Springer Nature](#) This book is the first to present the state of the art and provide technical focus on the latest advances in the foundations of blockchain systems. It is a collaborative work between specialists in cryptography, distributed systems, formal languages, and economics, and addresses hot topics in blockchains from a theoretical perspective: cryptographic primitives, consensus, formalization of blockchain properties, game theory applied to blockchains, and economical issues. This book reflects the expertise of the various authors, and is intended to benefit researchers, students, and engineers who seek an understanding of the theoretical foundations of blockchains.

The Routledge Handbook of FinTech [Routledge](#) The Routledge Handbook of FinTech offers comprehensive coverage of the opportunities, challenges and future trends of financial technology. This handbook is a unique and in-depth reference work. It is organised in six thematic parts. The first part outlines the development, funding, and the future trends. The second focuses on blockchain technology applications and various aspects of cryptocurrencies. The next covers FinTech in banking. A significant element of FinTech, mobile payments and online lending, is included in the fourth part. The fifth continues with several chapters covering other financial services, while the last discusses ethics and regulatory issues. These six parts represent the most significant and overarching themes of FinTech innovations. This handbook will appeal to students, established researchers seeking a single repository on the subject, as well as policy makers and market professionals seeking convenient access to a one-stop guide.

Blockchain-Based Smart Grids [Academic Press](#) Blockchain-Based Smart Grids presents emerging applications of blockchain in electrical system and looks to future developments in the use of blockchain technology in the energy market. Rapid growth of renewable energy resources in power systems and significant developments in the telecommunication systems has resulted in new market designs being employed to cover unpredictable and distributed generation of electricity. This book considers the marriage of blockchain and grid modernization, and discusses the transaction shifts in smart grids, from centralized to peer-to-peer structures. In addition, it addresses the effective application of these structures to speed up processes, resulting in more flexible electricity systems. Aimed at moving towards blockchain-based smart grids with renewable applications, this book is useful to researchers and practitioners in all sectors of smart grids, including renewable energy providers, manufacturers and professionals involved in electricity generation from renewable sources, grid modernization and smart grid applications. Considers the current challenges facing smart grids and presents solutions on how blockchain technology could counter these issues Incorporates detailed applications of blockchain in smart grids based on dynamic research and developments Includes models, algorithms, and frameworks to practically demonstrate the uses of blockchain technology Written by a global group of authors for worldwide coverage

Role of Blockchain Technology in IoT Applications [Academic Press](#) Role of Blockchain Technology in IoT Applications, Volume 115 in the Advances in Computers series, reviews the latest information on this topic that promises many applications in human life. According to forecasts made by various market research/survey agencies, there will be around 50 Billion connected devices (IoT) by 2020. Updates in this new release include chapters on the Technical Aspects of Blockchain and IoT, Integrated Platforms for Blockchain-Enablement, Intersections Between IoT and Distributed Ledger, Blockchain and Artificial Intelligence: How and Why Combining These Two Groundbreaking Technologies, Blockchain Applications in Health Care and Opportunities and Advancements Due to New Information Technology Frameworks, and more. Explores blockchain technology research trends in secured device to device communication Includes updates on secure vehicular communication (VANET) using blockchain technology Provides the latest on secure IoT communication using blockchain technology Presents use cases of blockchain technology in healthcare, the food chain, ERP and other emerging areas

Blockchain - ICBC 2021 4th International Conference, Held as Part of the Services Conference Federation, SCF 2021, Virtual Event, December 10-14, 2021, Proceedings [Springer Nature](#)

Understanding Cryptocurrencies Bitcoin, Ethereum, and Altcoins as an Asset Class [Business Expert Press](#) Understanding Cryptocurrencies is perfect for both introductory investors to the digital asset space and experienced investors seeking to gain practical insight into frameworks for understanding digital assets and valuation metrics. The book provides in-depth analysis of Bitcoin, Ethereum, and the different types of Altcoins in the ecosystem. The author demonstrates an empirical approach to explaining how digital assets can fit into a diversified portfolio of traditional financial assets, or as a standalone portfolio in a parallel financial ecosystem. The book contains fundamental, technical, and on-chain analytic tools for investors to better understand Bitcoin price cycles that will ultimately lead to better returns. The capital from these price cycles oftentimes migrates to other digital assets, creating a robust ecosystem and providing opportunities for enterprising investors to generate additional alpha. In Understanding Cryptocurrencies, the author also offers options for asset custody and counterargument breakdowns to create better informed investors. Lastly, the author provides poignant insight into the economic inefficiencies created from decades of Central Bank interest rate manipulation and monetary expansion. These inefficiencies have had social, political, and economic implications. It is ultimately due to these inefficiencies that a global sound money vacuum exists for Bitcoin and other digital assets to exploit.

Blockchain Technology: Applications and Challenges [Springer Nature](#) This book discusses the various open issues of blockchain technology, such as the efficiency of blockchain in different domains of digital cryptocurrency, smart contracts, smart education system, smart cities, cloud identity and access, safeguard to cybersecurity and health care. For the first time in human history, people across the world can trust each other and transact over a large peer-to-peer networks without any central authority. This proves that, trust can be built not only by centralized institution but also by protocols and cryptographic mechanisms. The potential and

collaboration between organizations and individuals within peer networks make it possible to potentially move to a global collaborative network without centralization. Blockchain is a complex social, economic and technological phenomenon. This questions what the established terminologies of the modern world like currency, trust, economics and exchange would mean. To make any sense, one needs to realize how much insightful and potential it is in the context and the way it is technically developed. Due to rapid changes in accessing the documents through online transactions and transferring the currency online, many previously used methods are proving insufficient and not secure to solve the problem which arises in the safe and hassle-free transaction. Nowadays, the world changes rapidly, and a transition flow is also seen in Business Process Management (BPM). The traditional Business Process Management holds good establishment last one to two decades, but, the internal workflow confined in a single organization. They do not manage the workflow process and information across organizations. If they do so, again fall in the same trap as the control transfers to the third party that is centralized server and it leads to tampering the data, and single point of failure. To address these issues, this book highlights a number of unique problems and effective solutions that reflects the state-of-the art in blockchain Technology. This book explores new experiments and yields promising solutions to the current challenges of blockchain technology. This book is intended for the researchers, academicians, faculties, scientists, blockchain specialists, business management and software industry professionals who will find it beneficial for their research work and set new ideas in the field of blockchain. This book caters research work in many fields of blockchain engineering, and it provides an in-depth knowledge of the fields covered. **Advanced Applications of Blockchain Technology** [Springer Nature](#) This contributed volume discusses diverse topics to demystify the rapidly emerging and evolving blockchain technology, the emergence of integrated platforms and hosted third-party tools, and the development of decentralized applications for various business domains. It presents various applications that are helpful for research scholars and scientists who are working toward identifying and pinpointing the potential of as well as the hindrances to this technology. **Advanced Information Networking and Applications Proceedings of the 34th International Conference on Advanced Information Networking and Applications (AINA-2020)** [Springer Nature](#) This proceedings book covers the theory, design and applications of computer networks, distributed computing and information systems. Today's networks are evolving rapidly, and there are several developing areas and applications. These include heterogeneous networking supported by recent technological advances in power wireless communications, along with silicon integration of various functionalities such as sensing, communications, intelligence and actuations, which is emerging as a critically important disruptive computer class based on a new platform, networking structure and interface that enables novel, low-cost and high-volume applications. However, implementing these applications has sometimes been difficult due to interconnection problems. As such, different networks need to collaborate, and wired and next-generation wireless systems need to be integrated in order to develop high-performance computing solutions to address the problems arising from these networks' complexities. This ebook presents the latest research findings, as well as theoretical and practical perspectives on the innovative methods and development techniques related to the emerging areas of information networking and applications **Government 3.0 - Next Generation Government Technology Infrastructure and Services Roadmaps, Enabling Technologies & Challenges** [Springer](#) Historically, technological change has had significant effect on the locus of administrative activity, cost of carrying out administrative tasks, the skill sets needed by officials to effectively function, rules and regulations, and the types of interactions citizens have with their public authorities. Next generation Public Sector Innovation will be "Government 3.0" powered by innovations related to Open and big data, administrative and business process management, Internet-of-Things and blockchains for public sector innovation to drive improvements in service delivery, decision and policy making and resource management. This book provides fresh insights into this transformation while also examining possible negative side effects of the increasing openness of governments through the adoption of these new innovations. The goal is for technology policy makers to engage with the visions of Government 3.0 . Researchers should be able to critically examine some of the innovations described in the book as the basis for developing research agendas related to challenges associated with the adoption and use of some of the associated technologies. The book serves as a rich source of materials from leading experts in the field that enables Public administration practitioners to better understand how these new technologies impact traditional public administration paradigms. The book is suitable for graduate courses in Public Sector Innovation, Innovation in Public Administration, E-Government and Information Systems. Public sector technology policy makers, e-government, information systems and public administration researchers and practitioners should all benefit from reading this book. **Trends in Cloud-based IoT** [Springer Nature](#) This book examines research topics in IoT and Cloud and Fog computing. The contributors address major issues and challenges in IoT-based solutions proposed for the Cloud. The authors discuss Cloud smart and energy efficient services in applications such as healthcare, traffic, and farming systems. Targeted readers are from varying disciplines who are interested in designing and deploying the Cloud applications. The book can be helpful to Cloud-based IoT service providers, Cloud-based IoT service consumers, and Cloud service developers in general for getting the state-of-the-art knowledge in the emerging IoT area. The book also provides a strong foundation for researchers to advance further in this domain. Presents a variety of research related to IoT and Cloud computing; Provides the industry with new and innovative operational ideas; Pertinent to academics, researchers, and practitioners around the world. **ECIE 2019 14th European Conference on Innovation and Entrepreneurship (2 vols)** [Academic Conferences and publishing limited](#)