

Blockchain Basics

Blockchain Basics Springer

Shin'ichiro Matsuo, Nat Sakimura

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Blockchain Technology and Applications Manoj Kumar M V, Annappa B, Likewin Thomas, Sourav Kanti Addya, Niranjana Murthy M, 2022-12-13 Blockchain is an emerging platform for developing decentralized applications and data storage over and beyond its role as a platform for cryptocurrencies This reference text provides a comprehensive discussion on blockchain technology from research and application perspective Discusses different approaches for building distributed applications DAPPS Provides detailed listing and discussion of blockchain technology applications in solving real life problems Covers proof of work PoW based blockchain consensus and proof of stake PoS based blockchain consensus Discusses blockchain algorithms including practical byzantine fault tolerance PBFT and simplified byzantine fault tolerance SBFT It comprehensively covers important topics including blockchain consensus algorithms Ethereum Hyperledger blockchain scalability smart contracts with solidity ERC20 standards building DApp with Golang building DApp using Hyperledger building PoCs with Hyperledger fabric blockchain as a server blockchain security and privacy The text will serve as a useful text for senior undergraduate and graduate students in interdisciplinary areas including electronics and communications engineering electrical engineering computer science and information technology Cryptographic Primitives in Blockchain Technology Andreas Bolting, 2020 Cryptographic Primitives in Blockchain Technology provides an introduction to the mathematical and cryptographic concepts behind blockchain technologies and shows how they are applied in blockchain based systems *Harnessing the Potential of Blockchain Technology in the Smart Healthcare* Pankaj Bhambri, Tien Anh Tran, Mukesh Prasad, 2026-03-02 *Harnessing the Potential of Blockchain Technology in the Smart Healthcare* explores a groundbreaking shift in how healthcare data are managed shared and secured This book is an essential guide for anyone seeking a deep understanding of the intersection between blockchain and healthcare It breaks down complex blockchain concepts and reveals their transformative impact on the industry Across 27 insightful chapters the readers will discover how blockchain can not only revolutionize electronic health records strengthen data security and privacy and streamline healthcare operations but also empower patients with greater control over their health information Through real world case studies expert insights and practical strategies the book equips healthcare professionals technologists and policymakers with the tools to leverage blockchain for a more efficient transparent and patient centered healthcare system By examining real world applications and implementations this book not only informs but also inspires action paving the way for a future where healthcare is smarter safer and more equitable illuminates how blockchain technology enhances data security and privacy assuaging concerns about patient information breaches explores concrete strategies for interoperability facilitating seamless data exchange among healthcare providers and promoting a patient centric approach to healthcare delves into the complexities of regulatory compliance and suggests pathways for healthcare organizations to navigate the evolving regulatory landscape successfully **Research Anthology on Blockchain**

Technology in Business, Healthcare, Education, and Government Management Association, Information Resources, 2020-09-30 Even though blockchain technology was originally created as a ledger system for bitcoin to operate on using it for areas other than cryptocurrency has become increasingly popular as of late The transparency and security provided by blockchain technology is challenging innovation in a variety of businesses and is being applied in fields that include accounting and finance supply chain management and education With the ability to perform such tasks as tracking fraud and securing the distribution of medical records this technology is key to the advancement of many industries The Research Anthology on Blockchain Technology in Business Healthcare Education and Government is a vital reference source that examines the latest scholarly material on trends techniques and uses of blockchain technology applications in a variety of industries and how this technology can further transparency and security Highlighting a range of topics such as cryptography smart contracts and decentralized blockchain this multi volume book is ideally designed for academics researchers industry leaders managers healthcare professionals IT consultants engineers programmers practitioners government officials policymakers and students Handbook of Research on Cloud Computing and Big Data Applications in IoT Gupta, B. B., Agrawal, Dharma P., 2019-04-12 Today cloud computing big data and the internet of things IoT are becoming indubitable parts of modern information and communication systems They cover not only information and communication technology but also all types of systems in society including within the realms of business finance industry manufacturing and management Therefore it is critical to remain up to date on the latest advancements and applications as well as current issues and challenges The Handbook of Research on Cloud Computing and Big Data Applications in IoT is a pivotal reference source that provides relevant theoretical frameworks and the latest empirical research findings on principles challenges and applications of cloud computing big data and IoT While highlighting topics such as fog computing language interaction and scheduling algorithms this publication is ideally designed for software developers computer engineers scientists professionals academicians researchers and students Computational Modeling and Data Analysis in COVID-19 Research Chhabi Rani Panigrahi, Bibudhendu Pati, Mamata Rath, Rajkumar Buyya, 2021-05-09 This book covers recent research on the COVID 19 pandemic It includes the analysis implementation usage and proposed ideas and models with architecture to handle the COVID 19 outbreak Using advanced technologies such as artificial intelligence AI and machine learning ML techniques for data analysis this book will be helpful to mitigate exposure and ensure public health We know prevention is better than cure so by using several ML techniques researchers can try to predict the disease in its early stage and develop more effective medications and treatments Computational technologies in areas like AI ML Internet of Things IoT and drone technologies underlie a range of applications that can be developed and utilized for this purpose Because in most cases there is no one solution to stop the spreading of pandemic diseases and the integration of several tools and tactics are needed Many successful applications of AI ML IoT and drone technologies already exist including systems that analyze past data to

predict and conclude some useful information for controlling the spread of COVID 19 infections using minimum resources The AI and ML approach can be helpful to design different models to give a predictive solution for mitigating infection and preventing larger outbreaks This book Examines the use of artificial intelligence AI machine learning ML Internet of Things IoT and drone technologies as a helpful predictive solution for controlling infection of COVID 19 Covers recent research related to the COVID 19 pandemic and includes the analysis implementation usage and proposed ideas and models with architecture to handle a pandemic outbreak Examines the performance implementation architecture and techniques of different analytical and statistical models related to COVID 19 Includes different case studies on COVID 19 Dr Chhabi Rani Panigrahi is Assistant Professor in the Department of Computer Science at Rama Devi Women s University Bhubaneswar India Dr Bibudhendu Pati is Associate Professor and Head of the Department of Computer Science at Rama Devi Women s University Bhubaneswar India Dr Mamata Rath is Assistant Professor in the School of Management Information Technology at Birla Global University Bhubaneswar India Prof Rajkumar Buyya is a Redmond Barry Distinguished Professor and Director of the Cloud Computing and Distributed Systems CLOUDS Laboratory at the University of Melbourne Australia

Intelligent Healthcare Systems Vania V. Estrela,2023-08-04 The book sheds light on medical cyber physical systems while addressing image processing microscopy security biomedical imaging automation robotics network layers issues software design and biometrics among other areas Hence solving the dimensionality conundrum caused by the necessity to balance data acquisition image modalities different resolutions dissimilar picture representations subspace decompositions compressed sensing and communications constraints Lighter computational implementations can circumvent the heavy computational burden of healthcare processing applications Soft computing metaheuristic and deep learning ascend as potential solutions to efficient super resolution deployment The amount of multi resolution and multi modal images has been augmenting the need for more efficient and intelligent analyses e g computer aided diagnosis via computational intelligence techniques This book consolidates the work on artificial intelligence methods and clever design paradigms for healthcare to foster research and implementations in many domains It will serve researchers technology professionals academia and students working in the area of the latest advances and upcoming technologies employing smart systems design practices and computational intelligence tactics for medical usage The book explores deep learning practices within particularly difficult computational types of health problems It aspires to provide an assortment of novel research works that focuses on the broad challenges of designing better healthcare services

Foundations of Blockchain Ahmed Imteaj,M. Hadi Amini,Panos M. Pardalos,2021-07-16 This book provides a comprehensive analysis of fundamental topics related to blockchain Throughout the authors explore different vital issues and specific areas of blockchain For convenience the authors present the elementary description visualize the working procedure of blockchain paradigm and highlight the areas it can be applied in real life They explain the blockchain process from a diverse perspective i e distributed Internet of Things IoT

interdependent networks intelligent mining etc They also analyze the interconnection of a blockchain network and such novel research areas to show a pathway towards a new research direction This book also holds the core challenges and open research issues of blockchain technology considering existing applications Chapters include consensus mechanisms of blockchain blockchain applicability in centralized and decentralized internet of things blockchain interoperability from the perspective of interdependent networks and blockchain for resource constrained devices Specifies the importance of theoretical methods in dealing with problems in the context of blockchain for interdependent decision making Provides a comprehensive investigation of blockchain algorithms and the recently developed methods based on this algorithm Provides basics and mathematical foundations needed to learn and deploy blockchain

Blockchain Applications in IoT

Ecosystem Tanupriya Choudhury,Abhirup Khanna,Teoh Teik Toe,Madhu Khurana,Nguyen Gia Nhu,2021-06-14 This book focuses on the fundamentals of blockchain technology along with the means and methods of its integration with Internet of Things IoT The book allows the reader to have a deeper understanding of blockchain technology IoT and various application areas wherein both technologies can be implemented The book serves the purpose of providing knowledge about the fundamentals of blockchain and IoT to a common reader along with allowing a research scholar to identify some futuristic problem areas that emerge from the convergence of both technologies Furthermore the authors discuss relevant application areas such as smart city e healthcare smart travel etc throughout the course of the book The book also talks through a few case studies illustrating the implementation and benefits of using blockchain and IoT Provides a comprehensive view of blockchain technology and its integration with IoT Facilitates in having a valuable understanding of various application areas pertaining to blockchain and IoT Assists the reader in exploring new research areas wherein blockchain and IoT can find their applicability based upon their list of benefits

Blockchain, Artificial Intelligence, and the Internet of Things Pethuru

Raj,Ashutosh Kumar Dubey,Abhishek Kumar,Pramod Singh Rathore,2021-11-22 This book provides basic concepts and deep knowledge about various security mechanisms that can be implemented in IoT through Blockchain technology This book aids readers in gaining insight and knowledge about providing security and solutions to different challenges in IoT using Blockchain technology This book primarily focuses on challenges to addressing the integration of the IoT with Blockchain with respect to potential benefits for IoT This book gives descriptive analysis of Blockchain integrated with IoT applications and platforms for the development of IoT solutions along with possible topologies to that integration Several application examples are included in a variety of industries

Blockchain Basics Daniel Drescher,2017-03-14

In 25 concise steps you will learn the basics of blockchain technology No mathematical formulas program code or computer science jargon are used No previous knowledge in computer science mathematics programming or cryptography is required Terminology is explained through pictures analogies and metaphors This book bridges the gap that exists between purely technical books about the blockchain and purely business focused books It does so by explaining both the technical concepts that make up the

blockchain and their role in business relevant applications What You ll Learn What the blockchain is Why it is needed and what problem it solves Why there is so much excitement about the blockchain and its potential Major components and their purpose How various components of the blockchain work and interact Limitations why they exist and what has been done to overcome them Major application scenarios Who This Book Is For Everyone who wants to get a general idea of what blockchain technology is how it works and how it will potentially change the financial system as we know it

Blockchain: Empowering Secure Data Sharing Meng Shen,Liehuang Zhu,Ke Xu,2020-07-15 With the development of big data data sharing has become increasingly popular and important in optimizing resource allocation and improving information utilization However the expansion of data sharing means there is an urgent need to address the issue of the privacy protection an area where the emerging blockchain technology offers considerable advantages Although there are a large number of research papers on data sharing modeling and analysis of network security there are few books dedicated to blockchain based secure data sharing Filing this gap in the literature the book proposes a new data sharing model based on the blockchain system which is being increasingly used in medical and credit reporting contexts It describes in detail various aspects of the model including its role transaction structure design secure multi party computing and homomorphic encryption services and incentive mechanisms and presents corresponding case studies The book explains the security architecture model and the practice of building data sharing from the blockchain infrastructure allowing readers to understand the importance of data sharing security based on the blockchain framework as well as the threats to security and privacy Further by presenting specific data sharing case studies it offers insights into solving data security sharing problems in more practical fields The book is intended for readers with a basic understanding of the blockchain infrastructure consensus mechanisms smart contracts secure multiparty computing homomorphic encryption and image retrieval technologies

[Transforming Cybersecurity Solutions using Blockchain](#) Rashmi Agrawal,Neha Gupta,2021-04-13 This book is targeted towards cybersecurity professionals especially those dealing with cloud security or any stakeholders dealing with cybersecurity who want to understand the next level of security infrastructure using blockchain The book s security and privacy analysis help with an understanding of the basics of blockchain and it explores the quantifying impact of the new attack surfaces introduced by blockchain technologies and platforms In addition the book contains relevant and current updates on the topic It follows a practical approach to help understand how blockchain technology is used to transform cybersecurity solutions

Blockchain Gaps Shin'ichiro Matsuo,Nat Sakimura,2021-04-26 This book analyzes the fundamental issues faced when blockchain technology is applied to real life applications These concerns not only in the realm of computer science are caused by the nature of technological design Blockchain is considered the foundation of a wide range of flexible ecosystems its technology is an excellent mixture of mathematics cryptography incentive mechanisms economics and pertinent regulations The book provides an essential understanding of why such fundamental issues arise by

revising the underlying theories Blockchain theory is thus presented in an easy to understand useful manner Also explained is the reason why blockchain is hard to adopt for real life problems but is valuable as a foundation for flexible ecosystems Included are directions for solving those problems and finding suitable areas for blockchain applications in the future The authors of this work are experts from a wide range of backgrounds such as cryptography distributed computing computer science trust identity regulation and standardization Their contributions collected here will appeal to all who are interested in blockchain and the elements surrounding it

Blockchain Gaps Shin'ichiro Matsuo, Nat Sakimura, 2021 This book analyzes the fundamental issues faced when blockchain technology is applied to real life applications These concerns not only in the realm of computer science are caused by the nature of technological design Blockchain is considered the foundation of a wide range of flexible ecosystems its technology is an excellent mixture of mathematics cryptography incentive mechanisms economics and pertinent regulations The book provides an essential understanding of why such fundamental issues arise by revising the underlying theories Blockchain theory is thus presented in an easy to understand useful manner Also explained is the reason why blockchain is hard to adopt for real life problems but is valuable as a foundation for flexible ecosystems Included are directions for solving those problems and finding suitable areas for blockchain applications in the future The authors of this work are experts from a wide range of backgrounds such as cryptography distributed computing computer science trust identity regulation and standardization Their contributions collected here will appeal to all who are interested in blockchain and the elements surrounding it

Blockchain Technology: Applications and Challenges Sandeep Kumar Panda, Ajay Kumar Jena, Santosh Kumar Swain, Suresh Chandra Satapathy, 2021-04-30 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

Blockchain Tatiana Gayvoronskaya, Christoph Meinel, 2020-12-17 This book focuses on the innovation of blockchain technology and the advantages it offers It provides a clear and comprehensive overview of blockchain technology and its possibilities and thereby helps readers to form an opinion and draw their own conclusions about its potential exploitations The book begins with a chapter on the topic of decentralized networks which familiarizes readers with their challenges by using the example of an online trading platform Hereinafter it is then detailed what blockchain technology is where it comes from and how it works The necessary underlying technologies are explained and various individual approaches as well as their composition are presented Using well known examples such as Bitcoin and Ethereum as an illustration the book looks at the architecture of blockchain technology and focuses on the challenges such as security and scalability The options available when introducing blockchain technology are also outlined and best practice examples are presented to get a better idea of what areas benefit from this technology Numerous examples and detailed explanations will accompany the readers throughout the book By the time they have reached the end they will be able to decide for themselves what is truly innovative about blockchain technology and what is nothing more than hype

Data Science Techniques for Cryptocurrency Blockchains Innar Liiv, 2021-06-23 This book brings together two major trends data science and blockchains It is one of the first books to systematically cover the analytics aspects of blockchains with the goal of linking traditional data mining research communities with novel data sources Data science and big data technologies can be considered cornerstones of the data driven digital transformation of organizations and society The concept of blockchain is predicted to enable and spark transformation on par with that associated with the invention of the Internet Cryptocurrencies are the first successful use case of highly distributed blockchains like the world wide web was to the Internet The book takes the reader through basic data exploration topics proceeding systematically method by method through supervised and unsupervised learning approaches and information visualization techniques all the way to understanding the blockchain data from the network science perspective Chapters introduce the cryptocurrency blockchain data model and methods to explore it using structured query language association rules clustering classification visualization and network science Each chapter introduces basic concepts presents examples with real cryptocurrency blockchain data

and offers exercises and questions for further discussion Such an approach intends to serve as a good starting point for undergraduate and graduate students to learn data science topics using cryptocurrency blockchain examples It is also aimed at researchers and analysts who already possess good analytical and data skills but who do not yet have the specific knowledge to tackle analytic questions about blockchain transactions The readers improve their knowledge about the essential data science techniques in order to turn mere transactional information into social economic and business insights

Applications of Blockchain Technology in Business Mohsen Attaran,Angappa Gunasekaran,2019 The book discusses the various ways that blockchain technology is changing the future of money transactions government and business The first two chapters walk through the foundation of blockchain Chapters 3 12 look at applications of blockchain in different industries and highlight its exciting new business applications It show why so many companies are implementing blockchain and present examples of companies who have successfully employed the technology to improve efficiencies and reduce costs Chapter 13 highlights blockchain s powerful potential to foster emerging markets and economies including smart cities value based healthcare decentralized sharing economy machine to machine transactions data sharing marketplace etc Chapter 14 offers a conceptual model provides information and insights and covers a step by step approach to plan and develop blockchain based technology

Blockchain and Applications Javier Prieto,Alberto Partida,Paulo Leitão,António Pinto,2021-09-03 This book constitutes the refereed proceedings of the 1st International Congress on Blockchain and Applications 2021 BLOCKCHAIN 21 held in Salamanca Spain in October 2021 Among the scientific community blockchain and artificial intelligence are a promising combination that will transform the production and manufacturing industry media finance insurance e government etc Nevertheless there is no consensus with schemes or best practices that would specify how blockchain and artificial intelligence should be used together The 38 full papers presented were carefully reviewed and selected from over 44 submissions They contain the latest advances on blockchain and artificial intelligence and on their application domains exploring innovative ideas guidelines theories models technologies and tools and identifying critical issues and challenges that researchers and practitioners must deal with in future research

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