

The Swirls Hashgraph Consensus Algorithm Fair Fast

Proceedings of 10th Computer Science On-line Conference 2021, Vol. 1
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 40th Annual International Cryptology Conference, CRYPTO 2020, Santa Barbara, CA, USA, August 17-21, 2020, Proceedings, Part III
 The Semantic Web
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 Critical Infrastructure Protection XIII
 Криптография и распределенные реестры
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 15th International Conference, WASA 2020, Qingdao, China, September 13-15, 2020, Proceedings, Part II
 11th EAI International Conference, WISATS 2020, Nanjing, China, September 17-18, 2020, Proceedings, Part II
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 On the Move to Meaningful Internet Systems. OTM 2018 Conferences
 Rethinking the Regulation of Cryptoassets
 Second International Conference on Image Processing and Capsule Networks

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Proceedings of 10th Computer Science On-line Conference 2021, Vol. 1 Springer Nature
 This book constitutes the proceedings of the 6th International Conference on Interactive Collaborative Robotics, ICR 2021, held in St. Petersburg, Russia, in October 2021. The 19 papers presented were carefully reviewed and selected from 40 submissions. Challenges of human-robot interaction, robot control and behavior in social robotics and collaborative robotics, as well as applied robotic and cyber-physical systems are mainly discussed in the papers.

Wireless Blockchain Springer Nature

This book includes the papers presented in 2nd International Conference on Image Processing and Capsule Networks [ICPCN 2021]. In this digital era, image processing plays a significant role in wide range of real-time applications like sensing, automation, health care, industries etc. Today, with many technological advances, many state-of-the-art techniques are integrated with image

processing domain to enhance its adaptiveness, reliability, accuracy and efficiency. With the advent of intelligent technologies like machine learning especially deep learning, the imaging system can make decisions more and more accurately. Moreover, the application of deep learning will also help to identify the hidden information in volumetric images. Nevertheless, capsule network, a type of deep neural network, is revolutionizing the image processing domain; it is still in a research and development phase. In this perspective, this book includes the state-of-the-art research works that integrate intelligent techniques with image processing models, and also, it reports the recent advancements in image processing techniques. Also, this book includes the novel tools and techniques for deploying real-time image processing applications. The chapters will briefly discuss about the intelligent image processing technologies, which leverage an authoritative and detailed representation by delivering an enhanced image and video recognition and adaptive processing mechanisms, which may clearly define the image and the family of image processing techniques and applications that are closely related to the humanistic way of thinking. [Advances in Information and Communication](#) Walter de Gruyter GmbH & Co KG

This book describes how the rapid advancement in encryption and network computing gave birth to new tools and products that have influenced the local and global economy alike. One recent and notable example is the emergence of virtual currencies (such as Bitcoin) also known as cryptocurrencies. Virtual currencies introduced a fundamental transformation that affected the way goods, services and assets are exchanged. As a result of its distributed ledgers based on blockchain, cryptocurrencies not only offer some unique advantages to the economy, investors, and consumers, but also pose considerable risks to users and challenges for regulators when fitting the new technology into the old legal framework. The core of this proposed book is to present and discuss the evidence on financial asset capabilities of virtual currencies. The contributors of this volume analyze several interesting and timely issues such as the particularities of virtual currencies and their statistical characteristics; the diversification benefits of virtual currencies; the behavior and dependence structure between virtual currencies and the financial markets; the economic implications of virtual currencies, their effects, their price risk, and contagion spillovers in a unified and comprehensive framework; the future of virtual currencies and their distributed

ledgers technology.

[Blockchain und maschinelles Lernen](#) Springer Nature

The second volume of this edited collection offers a number of contributions from leading scholars investigating Blockchain and its implications for business. Focusing on the transformation of the overall value chain, the sections cover the foundations of Blockchain and its sustainability, social and legal applications. It features a variety of use cases, from tourism to healthcare. Using a number of theoretical and methodological approaches, this innovative publication aims to further the cause of this ground-breaking technology and its use within information technology, supply chain and wider business management research.

40th Annual International Cryptology Conference, CRYPTO 2020, Santa Barbara, CA, USA, August 17-21, 2020, Proceedings, Part III Simon and Schuster

This book constitutes the post-conference proceedings of the 15th International Conference on Information Security and Cryptology, Inscrypt 2019, held in Nanjing, China, in December 2019. The 23 full papers presented together with 8 short papers and 2 invited papers were carefully reviewed and selected from 94 submissions. The papers cover topics in the fields of post-quantum cryptology; AI security; systems security; side channel attacks; identity-based cryptography; signatures; cryptanalysis; authentication; and mathematical foundations.

The Semantic Web Springer Nature

Handbook of Research on Blockchain Technology presents the latest information on the adaptation and implementation of Blockchain technologies in real world business, scientific, healthcare and biomedical applications. The book's editors present the rapid advancements in existing business models by applying Blockchain techniques. Novel architectural solutions in the deployment of Blockchain comprise the core aspects of this book. Several use cases with IoT, biomedical engineering, and smart cities are also incorporated. As Blockchain is a relatively new technology that exploits decentralized networks and is used in many sectors for reliable, cost-effective and rapid business transactions, this book is a welcomed addition on existing knowledge. Financial services, retail, insurance, logistics, supply chain, public sectors and biomedical industries are now investing in Blockchain research and technologies for their business growth. Blockchain prevents double spending in financial transactions without the need of a trusted authority or central server. It is a decentralized ledger platform that facilitates verifiable transactions between parties in a secure and smart way. Presents the evolution of blockchain, from fundamental theories, to present forms Explains the concepts of blockchain related to cloud/edge computing, smart healthcare, smart cities and Internet of Things (IoT) Provides complete coverage of the various tools, platforms and techniques used in blockchain Explores smart contract tools and consensus algorithms Covers a variety of applications with real world case studies in areas such as biomedical engineering, supply chain management, and tracking of goods and delivery

[Advances in Cryptology – CRYPTO 2020](#) Springer-Verlag

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.

Confederated International Conferences: CoopIS, C&TC, and ODBASE 2018, Valletta, Malta, October 22-26, 2018, Proceedings, Part II Springer Nature

Present book covers new paradigms in Blockchain, Big Data and Machine Learning concepts including applications and case studies. It explains dead fusion in realizing the privacy and security of blockchain based data analytic environment. Recent research of security based on big data, blockchain and machine learning has been explained through actual work by practitioners and researchers, including their technical evaluation and comparison with existing technologies. The theoretical background and experimental case studies related to real-time environment are covered as well. Aimed at Senior undergraduate students, researchers and professionals in

computer science and engineering and electrical engineering, this book: Converges Blockchain, Big Data and Machine learning in one volume. Connects Blockchain technologies with the data centric applications such Big data and E-Health. Easy to understand examples on how to create your own blockchain supported by case studies of blockchain in different industries. Covers big data analytics examples using R. Includes Illustrative examples in python for blockchain creation.

Policy-Based Autonomic Data Governance IGI Global

The information infrastructure – comprising computers, embedded devices, networks and software systems – is vital to operations in every sector: chemicals, commercial facilities, communications, critical manufacturing, dams, defense industrial base, emergency services, energy, financial services, food and agriculture, government facilities, healthcare and public health, information technology, nuclear reactors, materials and waste, transportation systems, and water and wastewater systems. Global business and industry, governments, indeed society itself, cannot function if major components of the critical information infrastructure are degraded, disabled or destroyed. Critical Infrastructure Protection XIII describes original research results and innovative applications in the interdisciplinary field of critical infrastructure protection. Also, it highlights the importance of weaving science, technology and policy in crafting sophisticated, yet practical, solutions that will help secure information, computer and network assets in the various critical infrastructure sectors. Areas of coverage include: Themes and Issues; Infrastructure Protection; Vehicle Infrastructure Security; Telecommunications Infrastructure Security; Cyber-Physical Systems Security; and Industrial Control Systems Security. This book is the thirteenth volume in the annual series produced by the International Federation for Information Processing (IFIP) Working Group 11.10 on Critical Infrastructure Protection, an international community of scientists, engineers, practitioners and policy makers dedicated to advancing research, development and implementation efforts focused on infrastructure protection. The book contains a selection of sixteen edited papers from the Thirteenth Annual IFIP WG 11.10 International Conference on Critical Infrastructure Protection, held at SRI International, Arlington, Virginia, USA in the spring of 2019. Critical Infrastructure Protection XIII is an important resource for researchers, faculty members and graduate students, as well as for policy makers, practitioners and other individuals with interests in homeland security.

Intelligent Data Engineering and Automated Learning – IDEAL 2020 IGI Global

This book aims to provide an international forum for scholarly researchers, practitioners and academic communities to explore the role of information and communication technologies and its applications in technical and scholarly development. The conference attracted a total of 464 submissions, of which 152 submissions (including 4 poster papers) have been selected after a double-blind review process. Academic pioneering researchers, scientists, industrial engineers and students will find this series useful to gain insight into the current research and next-generation information science and communication technologies. This book discusses the aspects of communication, data science, ambient intelligence, networking, computing, security and Internet of things, from classical to intelligent scope. The authors hope that readers find the volume interesting and valuable; it gathers chapters addressing state-of-the-art intelligent methods and techniques for solving real-world problems along with a vision of the future research.

ICCWS 2019 Springer Nature

Пособие содержит изложение основ технологии распределенных реестров, представителем которой является технология блокчейн. Пособие включает в себя разделы, посвященные основам современной криптографии, в первую очередь криптографии открытого ключа, и теории функций хэширования, теории распределенных систем и технологии блокчейн. Помимо этого, в приложениях приведен математический материал, дающий более полное и цельное представление об изучаемых разделах. Соответствует ФГОС ВО последнего поколения. Для студентов бакалавриата и магистратуры, обучающихся по направлениям подготовки «Прикладная математика и информатика», «Прикладная информатика» и «Информационная безопасность».

Advances in Artificial Intelligence and Security CRC Press

Innovative as it is, the blockchain technology is getting more and more attention and an increasing number of applications have emerged. This book elaborates on both the design thinking ideas and technical details in blockchain and smart contracts to help readers delve into the conceptual framework and understand why blockchain is designed as such and how it makes the current system decentralised yet effective. Having this understanding lays the ground for further analysis of blockchain-based solutions and innovative fintech applications. Topics covered in this book

include blockchain structure, blockchain ecosystem, design thinking for blockchain, smart contract, fintech and financial services, solution-based problem solving, fintech valuation, and current issues faced such as privacy protection and solution selection, with the aid of real-life examples and hands-on exercises. Blockchain and Smart Contracts serves as a valuable guide for researchers and practitioners who have interests in the blockchain, smart contract, fintech innovation and applications, design thinking, and technical details. This book is particularly written for anyone who has no technical background and is searching for an initiation into the deep end of blockchain. Those with business, finance and economic interests will find this interesting and easy to digest.

Network and System Security Springer Nature

A FINANCIAL TIMES BOOK OF THE MONTH FROM THE WALL STREET JOURNAL: "Nothing Mr. Gilder says or writes is ever delivered at anything less than the fullest philosophical decibel... Mr. Gilder sounds less like a tech guru than a poet, and his words tumble out in a romantic cascade." "Google's algorithms assume the world's future is nothing more than the next moment in a random process. George Gilder shows how deep this assumption goes, what motivates people to make it, and why it's wrong: the future depends on human action." — Peter Thiel, founder of PayPal and Palantir Technologies and author of Zero to One: Notes on Startups, or How to Build the Future The Age of Google, built on big data and machine intelligence, has been an awesome era. But it's coming to an end. In Life after Google, George Gilder—the peerless visionary of technology and culture—explains why Silicon Valley is suffering a nervous breakdown and what to expect as the post-Google age dawns. Google's astonishing ability to "search and sort" attracts the entire world to its search engine and countless other goodies—videos, maps, email, calendars....And everything it offers is free, or so it seems. Instead of paying directly, users submit to advertising. The system of "aggregate and advertise" works—for a while—if you control an empire of data centers, but a market without prices strangles entrepreneurship and turns the Internet into a wasteland of ads. The crisis is not just economic. Even as advances in artificial intelligence induce delusions of omnipotence and transcendence, Silicon Valley has pretty much given up on security. The Internet firewalls supposedly protecting all those passwords and personal information have proved hopelessly permeable. The crisis cannot be solved within the current computer and network architecture. The future lies with the "cryptocosm"—the new architecture of the blockchain and its derivatives. Enabling cryptocurrencies such as bitcoin and ether, NEO and Hashgraph, it will provide the Internet a secure global payments system, ending the aggregate-and-advertise Age of Google. Silicon Valley, long dominated by a few giants, faces a "great unbundling," which will disperse computer power and commerce and transform the economy and the Internet. Life after Google is almost here. For fans of "Wealth and Poverty," "Knowledge and Power," and "The Scandal of Money."

Handbook of Research on Blockchain Technology Springer Nature

This book constitutes revised selected papers from the workshops held at the 26th International Conference on Parallel and Distributed Computing, Euro-Par 2020, which took place in Warsaw, Poland, in August 2020. The workshops were held virtually due to the coronavirus pandemic. The 27 full papers presented in this volume were carefully reviewed and selected from 50 submissions. Euro-Par is an annual, international conference in Europe, covering all aspects of parallel and distributed processing. These range from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to full-edged applications, from architecture, compiler, language and interface design and implementation to tools, support infrastructures, and application performance aspects.

[Blockchain, Big Data and Machine Learning](#) Springer

The 3-volume set CCIS 1422, CCIS 1423 and CCIS 1424 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security, ICAIS 2021, which was held in Dublin, Ireland, in July 2021. The total of 131 full papers and 52 short papers presented in this 3-volume proceedings was carefully reviewed and selected from 1013 submissions. The papers were organized in topical sections as follows: Part I: artificial intelligence; Part II: artificial intelligence; big data; cloud computing and security; Part III: cloud computing and security; encryption and cybersecurity; information hiding; IoT security.

Building Decentralized Trust Academic Press

Blockchain And Smart Contracts: Design Thinking And Programming For FintechWorld Scientific [Wireless Algorithms, Systems, and Applications](#) Springer Nature

This book constitutes the proceedings of the 13th International Conference on Network and System Security, NSS 2019, held in Sapporo, Japan, in December 2019. The 36 full papers and 7 short

papers presented together with 4 invited papers in this book were carefully reviewed and selected from 89 initial submissions. The papers cover a wide range of topics in the field, including authentication, access control, availability, integrity, privacy, confidentiality, dependability and sustainability of computer networks and systems.

The Fall of Big Data and the Rise of the Blockchain Economy Springer Nature

This double volumes LNCS 11229-11230 constitutes the refereed proceedings of the Confederated International Conferences: Cooperative Information Systems, CoopIS 2018, Ontologies, Databases, and Applications of Semantics, ODBASE 2018, and Cloud and Trusted Computing, C&TC, held as part of OTM 2018 in October 2018 in Valletta, Malta. The 64 full papers presented together with 22 short papers were carefully reviewed and selected from 173 submissions. The OTM program every

year covers data and Web semantics, distributed objects, Web services, databases, informationsystems, enterprise workflow and collaboration, ubiquity, interoperability, mobility, grid and high-performance computing.

Dynamic Logic. New Trends and Applications Springer Nature

This book constitutes the proceedings of the Third International Workshop on Dynamic Logic, DaLí 2019, held in Prague, Czech Republic in October 2020. Due to COVID-19 the workshop has been held online. The 17 full papers presented together with 6 short papers were carefully reviewed and selected from 31 submissions. The theoretical relevance and practical potential of dynamic logic is a topic of interest in a number of scientific venues, from wide-scope software engineering

conferences to modal logic specific events. The DaLí 2020 workshop is exclusively dedicated to Dynamic logic and aims at filling this gap and creating a heterogeneous community of colleagues, from Academia to Industry, from Mathematics to Computer Science.

Blockchain And Smart Contracts: Design Thinking And Programming For Fintech Springer Nature

This book presents selected papers from the Third International Workshop on Vehicular Ad-hoc Networks for Smart Cities, Paris, 2019. Future smart cities are well placed to profit from extraordinary mobile infrastructures. IWVSC'2019 brings together experts from both academia and industry to discuss recent developments in vehicular networking technologies and their interaction with future smart cities in order to promote further research activities and challenges.