Equihash Asymmetric Proof Of Work Based On The

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Knights Landing Edition MDPI
"A systematic review of the structure and context of the blockchain-derived economic model... (the book) describes cryptoeconomics in connection with the game theory, behavioral economics and others in simple understandable language."—Wang Feng, founder of Linekong Interactive Group and Mars Finance, partner in Geekbang Venture Capital Blockchain technology has subverted existing perceptions and is the start of an economic revolution, called, cryptoeconomics. Blockchain is a key component of cryptoeconomics. Vlad Zamfir, a developer of Ethereum, defines this term as "a formal discipline that studies protocols that governs the production, distribution, and consumption of goods and services in a decentralized digital economy. Cryptoeconomics is a practical science that focuses on the design and characterization of these protocols". This book explains the structures of blockchain-derived economic models, their history, and their application. It uses real-world cases to illustrate the relationship between cryptoeconomics and blockchain. Blockchain technology solves trust issues. A blockchain application can restrict behavior on the blockchain through a reward and punishment system that enables consensus in an innovative way. The greatest significance of cryptoeconomics lies in guaranteeing safety, stability, activity, and order in a decentralized consensus system. Security and stability are achieved mainly by cryptographical mechanisms. Activity and order are achieved through economic mechanisms. Cryptoeconomics and Blockchain: Ignighting a New Era of Blockchain discusses the most popular consensus algorithms and optimization mechanisms. With examples explained in clear and simple terms that are easy to understand, the book also explores economic mechanisms of blockchain such as game theory and behavioral economics.
ESORICS 2018 International Workshops, DPM 2018 and CBT 2018, Barcelona, Spain, September 6-7, 2018, Proceedings Springer

Nature
Multivariate public key cryptosystems (MPKC) is a fast-developing area in cryptography. This book systematically presents the subject matter for a broad audience and is the first book to focus on this exciting new topic. Information security experts in industry can use the book as a guide for understanding what is needed to implement these cryptosystems for practical applications, and researchers in both computer science and mathematics will find it a good starting point for exploring this new field. It is also suitable as a textbook for advanced-level students.
Springer
The two-volume set LNCS 9985 and LNCS 9986 constitutes the refereed proceedings of the 14th International Conference on Theory of Cryptography, TCC 2016-B, held in Beijing, China, in November 2016. The total of 45 revised full papers presented in the proceedings were carefully reviewed and selected from 113 submissions. The papers were organized in topical sections named: TCC test-of-time award; foundations; unconditional security; foundations of multi-party protocols; round complexity and efficiency of multi-party computation; differential privacy; delegation and IP; public-key encryption; obfuscation and multilinear maps; attribute-based encryption; functional encryption; secret sharing; new models.
A Cookbook for Hackers, Forensic Analysts, Penetration Testers and Security Engineers Springer
This book is an all-in-one source of information for programming the Second-Generation Intel Xeon Phi product family also called Knights Landing. The authors provide detailed and timely Knights Landingspecific details, programming advice, and real-world examples. The authors distill their years of Xeon Phi programming experience coupled with insights from many expert customers — Intel Field Engineers, Application Engineers, and Technical Consulting Engineers — to create this authoritative book on the essentials of programming for Intel Xeon Phi products. Intel® Xeon PhiTM Processor High-Performance Programming is useful even before you ever program a system with an Intel Xeon Phi processor. To help ensure that your applications run at maximum efficiency, the authors emphasize key techniques for programming any modern parallel computing system whether based on Intel Xeon processors, Intel Xeon Phi processors, or other high-performance microprocessors. Applying these techniques will generally increase your program performance on any system and prepare you better for Intel Xeon Phi processors. A practical guide to the essentials for programming Intel Xeon Phi processors Definitive coverage of the Knights Landing architecture Presents best practices for portable, high-performance computing and a familiar and proven threads and vectors programming model Includes real world code examples that highlight usages of the unique aspects of this new highly parallel and high-performance computational product Covers use of MCDRAM, AVX-512, Intel® Omni-Path fabric, many-cores (up to 72), and many threads (4 per core) Covers software developer tools, libraries and programming models Covers using Knights Landing as a processor and a coprocessor
Alternative Assets and Cryptocurrencies Springer
Data Privacy Management, Cryptocurrencies and Blockchain TechnologyESORICS 2018 International Workshops, DPM 2018 and CBT 2018, Barcelona, Spain, September 6-7, 2018, ProceedingsSpringer
A deep dive into distributed ledgers, consensus protocols, smart contracts, DApps, cryptocurrencies, Ethereum, and more, 3rd Edition Packt Publishing Ltd
CRYPTO is a conference devoted to all aspects of cryptologic research. It is held each year at the University of California at Santa Barbara. Annual meetings on this topic also take place in Europe and are regularly published in this Lecture Notes series under the name of EUROCRYPT. This volume presents the proceedings of the ninth CRYPTO meeting. The papers are organized into sections with the following themes: Why is cryptography harder than it looks?, pseudo-randomness and sequences, cryptanalysis and implementation, signature and authentication, threshold schemes and key management, key distribution and network security, fast computation, odds and ends, zero-knowledge and oblivious transfer, multiparty computation.
Leverage the power of Python to encrypt and decrypt data Packt Publishing Ltd
The two-volume set LNCS 10677 and LNCS 10678 constitutes the refereed proceedings of the 15th International Conference on Theory of Cryptography, TCC 2017, held in Baltimore, MD, USA, in November 2017. The total of 51 revised full papers presented in the proceedings were carefully reviewed and selected from 150 submissions. The Theory of Cryptography Conference deals with the paradigms, approaches, and techniques used to conceptualize natural cryptographic problems and provide algorithmic solutions to them and much more.
Software Engineering Research, Management and Applications Data Privacy Management, Cryptocurrencies and Blockchain TechnologyESORICS 2018 International Workshops, DPM 2018 and CBT 2018, Barcelona, Spain, September 6-7, 2018, Proceedings
This manual documents the outcome of the EC sponsored project RACE Integrity Primitives Evaluation (R1040), RIPE. This project is a huge joint 350 man-month project conducted by 16 leading European security experts. This book offers expert advice to professionals seeking to secure information systems by applying up-to-date cryptographic techniques. The core of this volume is a detailed integrity primitives portfolio recommendation. Among the issues addressed are security services, integrity mechanisms, data origin authentication, entity authentication, access control, data integrity, non-repudiation, signatures, and key exchange.
Theory of Cryptography Academic Press
The three-volume set LNCS 10624, 10625, 10626 constitutes the refereed proceedings of the 23rd International Conference on the Theory and Applications of Cryptology and Information Security, ASIACRYPT 2017, held in Hong Kong, China, in December 2017.The 65 revised full papers were carefully selected from 243 submissions. They are organized in topical sections on Post-Quantum Cryptography; Symmetric Key Cryptanalysis; Lattices; Homomorphic Encryptions; Access Control; Oblivious Protocols; Side Channel Analysis; Pairing-based Protocols; Quantum Algorithms; Elliptic Curves; Block Chains; Multi-Party Protocols; Operating Modes Security Proofs; Cryptographic Protocols; Foundations; Zero-Knowledge Proofs; and Symmetric Key Designs.
2017 Cloud Computing Security Workshop John Wiley & Sons
Learn to evaluate and compare data encryption methods and attack cryptographic systems Key Features Explore popular and important cryptographic methods Compare cryptographic modes and understand their limitations Learn to perform attacks on cryptographic systems Book Description Cryptography is essential for protecting sensitive information, but it is often performed inadequately or incorrectly. Hands-On Cryptography with Python starts by showing you how to encrypt and evaluate your data. The book will then walk you through various data encryption methods,such as obfuscation, hashing, and strong encryption, and will show how you can attack cryptographic systems. You will learn how to create hashes, crack them, and will understand why they are so different from each other. In the

concluding chapters, you will use three NIST-recommended systems: the Advanced Encryption Standard (AES), the Secure Hash Algorithm (SHA), and the Rivest-Shamir-Adleman (RSA). By the end of this book, you will be able to deal with common errors in encryption. What you will learn Protect data with encryption and hashing Explore and compare various encryption methods Encrypt data using the Caesar Cipher technique Make hashes and crack them Learn how to use three NIST-recommended systems: AES, SHA, and RSA Understand common errors in encryption and exploit them Who this book is for Hands-On Cryptography with Python is for security professionals who want to learn to encrypt and evaluate data, and compare different encryption methods.

CREST Crypto-Math Project Springer

This book presents the outcomes of the 16th International Conference on Software Engineering, Artificial Intelligence Research, Management and Applications (SERA 2018), which was held in Kunming, China on June 13–15, 2018. The aim of the conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the various fields of computer science, to share their experiences, and to exchange new ideas and information in a meaningful way. The book includes findings on all aspects (theory, applications and tools) of computer and information science, and discusses related practical challenges and the solutions adopted to solve them. The conference organizers selected the best papers from those accepted for presentation. The papers were chosen based on review scores submitted by members of the program committee and underwent a further rigorous round of review. From this second round, 13 of the conference’s most promising papers were then published in this Springer (SCI) book and not the conference proceedings. We eagerly await the important contributions that we know these authors will make to the field of computer and information science.

Serious Cryptography IGI Global

An in-depth look into Mac OS X and iOS kernels Powering Macs, iPhones, iPads and more, OS X and iOS are becoming ubiquitous. When it comes to documentation, however, much of them are shrouded in mystery. Cocoa and Carbon, the application frameworks, are neatly described, but system programmers find the rest lacking. This indispensable guide illuminates the darkest corners of those systems, starting with an architectural overview, then drilling all the way to the core. Provides you with a top down view of OS X and iOS Walks you through the phases of system startup—both Mac (EFi) and mobile (iBoot) Explains how processes, threads, virtual memory, and filesystems are maintained Covers the security architecture Reviews the internal Apis used by the system—BSD and Mach Dissects the kernel, XNU, into its sub components: Mach, the BSD Layer, and I/o kit, and explains each in detail Explains the inner workings of device drivers From architecture to implementation, this book is essential reading if you want to get serious about the internal workings of Mac OS X and iOS.

Ccsw'17 American Mathematical Soc.

The conference aims to bring together scholars from different backgrounds to emphasize dissemination of ongoing research broadly in the fields of IOT, Electronics and Mechatronics Research papers are invited describing original works in above mentioned fields and related technologies The conference will include a peer reviewed program of technical sessions, special sessions, tutorials and demonstration sessions

Hands-On Cryptography with Python Springer Nature

This book constitutes revised papers from the seven workshops and one accompanying event which took place at the 21st International Conference on Business Information Systems, BIS 2018, held in Berlin, Germany, in July 2018. Overall across all workshops, 58 out of 122 papers were accepted. The workshops included in this volume are: AKTB 2018 - 10th Workshop on Applications of Knowledge-Based Technologies in Business BITA 2018 - 9th Workshop on Business and IT Alignment BSCT 2018 - 1st Workshop on Blockchain and Smart Contract Technologies IDEA 2018 - 4th International Workshop on Digital Enterprise Engineering and Architecture IDEATE 2018 - 3rd Workshop on Big Data and Business Analytics Ecosystems SciBOWater 2018 - Scientific Challenges & Business Opportunities in Water Management QOD 2018 - 1st Workshop on Quality of Open Data In addition, one keynote speech in full-paper length and contributions from the Doctoral Consortium are included

Blockchain Technology and Innovations in Business Processes World Scientific

In 1989, the IEEE Symposium on Security and Privacy has been the premium forum for presenting developments in computer security and electronic privacy bringing together researchers and practitioners in the field Following this story of success, in 2016, European Symposium on Security and Privacy (EuroSP) was initiated and every year held in an European city

23rd International Conference on the Theory and Applications of Cryptology and Information Security, Hong Kong, China, December 3-7, 2017, Proceedings, Part III Springer

The only guide for software developers who must learn and implement cryptography safely and cost effectively. Cryptography for Developers begins with a chapter that introduces the subject of cryptography to the reader. The second chapter discusses how to implement large integer arithmetic as required by RSA and ECC public key algorithms The subsequent chapters discuss the implementation of symmetric ciphers, one-way hashes, message authentication codes, combined authentication and encryption modes, public key cryptography and finally portable coding practices. Each chapter includes in-depth discussion on memory/size/speed performance trade-offs as well as what cryptographic problems are solved with the specific topics at hand. The author is the developer of the industry standard cryptographic suite of tools called LibTom A regular expert speaker at industry conferences and events on this development

Theory of Cryptography O'Reilly Media

This edited book provides a platform to bring together researchers, academia and industry collaborators to exchange their knowledge and work to develop better understanding about the scope of blockchain technology in business management applications of different sectors such as retail sector, supply chain and logistics, healthcare sector, manufacturing sector, judiciary, finance and government sector in terms of data quality and timeliness. The book presents original unpublished research papers on blockchain technology and business management on novel architectures, prototypes and case studies.

Igniting a New Era of Blockchain Springer Science & Business Media

Violent Python shows you how to move from a theoretical understanding of offensive computing concepts to a practical implementation. Instead of relying on another attacker’s tools, this book will teach you to forge your own weapons using the Python programming language. This book demonstrates how to write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts. It also shows how to write code to intercept and analyze network traffic using Python, craft and spoof wireless frames to attack wireless and Bluetooth devices, and how to data-mine popular social media websites and evade modern anti-virus. Demonstrates how to

write Python scripts to automate large-scale network attacks, extract metadata, and investigate forensic artifacts Write code to intercept and analyze network traffic using Python. Craft and spoof wireless frames to attack wireless and Bluetooth devices Data-mine popular social media websites and evade modern anti-virus

Mastering Ethereum Morgan & Claypool Publishers

This practical guide to modern encryption breaks down the fundamental mathematical concepts at the heart of cryptography without shying away from meaty discussions of how they work. You'll learn about authenticated encryption, secure randomness, hash functions, block ciphers, and public-key techniques such as RSA and elliptic curve cryptography. You'll also learn: - Key concepts in cryptography, such as computational security, attacker models, and forward secrecy - The strengths and limitations of the TLS protocol behind HTTPS secure websites - Quantum computation and post-quantum cryptography - About various vulnerabilities by examining numerous code examples and use cases - How to choose the best algorithm or protocol and ask vendors the right questions Each chapter includes a discussion of common implementation mistakes using real-world examples and details what could go wrong and how to avoid these pitfalls. Whether you're a seasoned practitioner or a beginner looking to dive into the field, Serious Cryptography will provide a complete survey of modern encryption and its applications.

Blockchain for Distributed Systems Security Springer

The $3x+1$ problem, or Collatz problem, concerns the following seemingly innocent arithmetic procedure applied to integers: If an integer x is odd then ``multiply by three and add one'', while if it is even then ``divide by two''. The $3x+1$ problem asks whether, starting from any positive integer, repeating this procedure over and over will eventually reach the number 1. Despite its simple appearance, this problem is unsolved. Generalizations of the problem are known to be undecidable, and the problem itself is believed to be extraordinarily difficult. This book reports on what is known on this problem. It consists of a collection of papers, which can be read independently of each other. The book begins with two introductory papers, one giving an overview and current status, and the second giving history and basic results on the problem. These are followed by three survey papers on the problem, relating it to number theory and dynamical systems, to Markov chains and ergodic theory, and to logic and the theory of computation. The next paper presents results on probabilistic models for behavior of the iteration. This is followed by a paper giving the latest computational results on the problem, which verify its truth for $x 5.4 \cdot 10^{18}$. The book also reprints six early papers on the problem and related questions, by L. Collatz, J. H. Conway, H. S. M. Coxeter, C. J. Everett, and R. K. Guy, each with editorial commentary. The book concludes with an annotated bibliography of work on the problem up to the year 2000.

Best Sellers - Books :
• Fourth Wing (the Empyrean, 1)
• Guess How Much I Love You By Sam Mcbratney
• A Court Of Wings And Ruin (a Court Of Thorns And Roses, 3)
• Killers Of The Flower Moon: The Osage Murders And The Birth Of The Fbi By David Grann
• My Butt Is So Christmassy! By Dawn Mcmillan
• The Wager: A Tale Of Shipwreck, Mutiny And Murder
• Never Lie: An Addictive Psychological Thriller By Freida Mcfadden
• It Starts With Us: A Novel (2) (it Ends With Us)
• The Democrat Party Hates America
• The Going To Bed Book By Sandra Boynton