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[PDF] Unaligned Incentives: Pricing Attacks Against Blockchain Rollups

S Chaliasos, C Swann, S Pilehchiha, N Mohnblatt... - arXiv preprint arXiv ..., 2025

Rollups have become the de facto scalability solution for Ethereum, securing more than \$55 B in assets. They achieve scale by executing transactions on a Layer 2 ledger, while periodically posting data and finalizing state on the Layer 1, either optimistically or via validity proofs. Their fees must simultaneously reflect the pricing of three resources: L2 costs (eg, execution), L1 DA, and underlying L1 gas costs for batch settlement and proof verification. In this work, we identify critical mis-pricings in ...

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System [↔](#)



Mining for efficiency: how blockchain could boost productivity in Chile's copper industry

F Ríos, C Peña, P Agnese - Mineral Economics, 2025

This paper explores the potential impact of blockchain technology on the productivity of Chile's copper mining industry. Amid rising global demand for copper and declining mining productivity, Chile faces challenges which include complex contractor management and administrative inefficiencies. We review the recent trends in mining productivity and blockchain technology and conduct a preliminary survey to assess the status of blockchain adoption in Chile's mining industry. The ...

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[PDF] A Bibliometric and Thematic Analysis of Initial Coin Offering: A Study of Two Decades

N Joshi, A Raval, A Bhatt, B Mehta - NMIMS Management Review, 2025

Purpose: Initial coin offerings (ICOs) are gaining relevance due to their novelty. They refer to fund-raising activity related to cryptocurrency and blockchain. ICOs are offered through a new cryptocurrency token, which may represent a stake in the company or project. The primary objective of this study is to understand the current state of research in ICO by analyzing various aspects, including the most significant publications, leading journals, contributing authors, their affiliations, and the ...

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System [↔](#)



[PDF] Understanding the Determinants of Blockchain Adoption: An Empirical Study

A Kohli, N Kumthekar, P Shah, R Jauch - *Journal of International Technology and ...*, 2025

Blockchain technology (BT) has the potential to enhance security and robustness of transactions through a distributed ledger bookkeeping process. This study employs technology-organization-environment (TOE) framework and threat-rigidity theory (TRT) to examine whether perceived disruption caused by COVID-19 pandemic significantly impacted the adoption of BT, and inclination to adopt BT in the US. The COVID-19 pandemic provided a unique backdrop, as it affected businesses across ...

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System [↔](#)



Useful Proof of Work Consensus for Efficient Route Planning as Block Mining

Y Jiang, Y Le, R Jiang, X Zhou, J Wang - *International Conference on Blockchain*, 2025

Blockchain serves as the cornerstone of decentralized trust and distributed data management in the Web3 era. Its applications have expanded from decentralized finance (DeFi) to various industrial and societal sectors. As one of the most recognized foundations behind those blockchain systems, the proof-of-work (PoW) consensus mechanism suffers from excessive computational and energy consumption. Encountering this challenge, a number of projects such as Quilibrium ...

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System [↔](#)



[PDF] pBeeGees: A Prudent Approach to Certificate-Decoupled BFT Consensus

K Yang, J Zhang, J Zheng, Q Liu, W Wu, J Zhou - *arXiv preprint arXiv:2509.17496*, 2025

Pipelined Byzantine Fault Tolerant (BFT) consensus is fundamental to permissioned blockchains. However, many existing protocols are limited by the requirement for view-consecutive quorum certificates (QCs). This constraint impairs performance and creates liveness vulnerabilities under adverse network conditions. Achieving "certificate decoupling"-committing blocks without this requirement-is therefore a key research goal. While the recent BeeGees algorithm achieves this, our work reveals ...

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System [↔](#)



Blockchain-Based Efficient Cross-Domain Access Control System for Autonomous Vehicle Data Sharing

Y Li, Y Yin, H Gao, H Lei, Z Li, Y Li - *ACM Transactions on Autonomous and Adaptive ...*

Autonomous driving requires the cooperation between vehicles and vehicle to infrastructures, a substantial amount of data is continuously being generated and shared to support intelligent transportation. It is necessary to apply strict and flexible access control mechanisms to protect data privacy in such complex scenarios. However, traditional centralized architecture cannot efficiently handle the usage and authorization of autonomous vehicle data. To prioritize the data sharing among ...

- Cites: A peer-to-peer electronic cash system. Bitcoin [↔](#)



[PDF] A KOTLIN-BASED DIGITAL IDENTITY VERIFICATION AND BLOCKCHAIN-POWERED VOTING SYSTEM FOR SECURE ELECTIONS

CO NNOROM, SBYDRM WALTON - 2025

This dissertation introduces a mobile voting application with Kotlin. It leverages blockchain and biometric verification to keep elections secure and open. The app is designed in modules and utilises Jetpack Compose, Firebase Firestore, ML Kit, and Web3j to handle smart contracts connection on the Polygon and Sepolia networks. The project aims to build a mobile application for elections. To vote, people will prove authenticity via a multi-step KYC process, document scanning, address verification ...

- Cites: A peer-to-peer electronic cash system [↗](#)



Ways to improve the system of technical support of communication and automated control systems of military formations using blockchain and qr-code technologies in ...

VS Kurochka, AA Burlakov, VV Kovalev, VB Nikolaev - Voprosy oboronnoj tehniki ..., 2025

The article considers ways to improve the efficiency of supplying military formations with communication equipment and automated control systems by creating a system of electronic accounting of materiel, with the use of blockchain and QR code technologies. The proposals were formed on the basis of cost analysis of logistics processes of the largest companies and the experience of supplying military formations during a special military operation. This issue is becoming more and more ...

- Cites: Bitcoin: A peer-to-peer electronic cash system. 2008 [↗](#)



Multi-Generational Competence: Membangun Kepemimpinan & Organisasi Multi Generasi

MY Anshori, GC Premananto, M Kurniawati, RA Rasyid - 2025

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