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Political economy of private cryptofinance. Technology and social relations

JJ Duque - The Japanese Political Economy, 2025

Distributed ledger technology marks a significant evolution of bookkeeping based on immutable and shared databases in cyberspace. Within this technological framework, which is intertwined with specific social relations, privately issued cryptocurrencies have emerged in multiple forms. A key distinction lies between cryptocurrencies that have their own distributed ledger, which are usually decentralized, and those created on top of existing ones, which are always …

- Cites: Bitcoin: A peer-to-peer electronic cash system

[HTML] Bitcoin reimagined: A comprehensive study of ordinals and inscriptions protocols for Web3 asset innovation

MM Karim, Q Qu, Y Cai, T Liu, X Meng - Blockchain: Research and Applications, 2025

The unprecedented rise of Bitcoin has marked a significant milestone in the evolution of decentralized finance (DeFi). Despite Bitcoin's groundbreaking contributions, it faces inherent challenges due to its reliance on the Unspent Transaction Output (UTXO) model, which limits its capabilities in executing complex transactions and embedding diverse data types. To overcome these limitations, Ordinals and Inscriptions have been introduced, allowing extensive data and information …

- Cites: Bitcoin: A peer-to-peer electronic cash system

[HTML] Identity Management Systems: A Comprehensive Review

Z Feng, Z Li, H Cui, MT Whitty - Information, 2025

Blockchain technology has introduced new paradigms for identity management systems (IDMSs), enabling users to regain control over their identity data and reduce reliance on centralized authorities. In recent years, numerous blockchain-based IDMS solutions have emerged across both practical application domains and academic research. However, prior reviews often focus on single application areas, provide limited cross-domain comparison, and insufficiently address security …

- Cites: A peer-to-peer electronic cash system

[HTML] Blockchain in supply chain management: a comprehensive review of

success measurement methods

M Hübschke, E Buss, E Holschbach, S Lier - Management Review Quarterly, 2025

Research on blockchain technology in supply chain management has gained significant attention in recent years due to its potential to address critical challenges such as transparency, traceability, and operational efficiency. Despite this interest, the relationship between blockchain implementation and its measurable success has not been thoroughly investigated. This study conducts a systematic literature review of 46 peer-reviewed papers published between 2008 and 2024, synthesizing current …

- Cites: Bitcoin: A peer-to-peer electronic cash system

[HTML] CAVer: Compacting Accumulation to Reduce Cross-chain Verification Overhead

Y Guo, Y Wang, J Huang, T Duan, L Jia, H Zhang… - Blockchain: Research and …, 2025

The data silos between heterogeneous blockchain platforms have given rise to cross-chain protocols. These cross-chain protocols enable secure interoperability between multiple distinct blockchains. Security requires that the target chain has ability to verify whether cross-chain messages have been finalized on the source chain. Existing cross-chain protocols first synchronize source chain block headers to the target chain and validate them, then verify cross-chain messages included in the …

- Cites: Bitcoin: A peer-to-peer electronic cash system

[PDF] SEASONED: Semantic-Enhanced Self-Counterfactual Explainable Detection of Adversarial Exploiter Contracts

X Ai, S Lin, Z Li, K Zhou, B Li, B Xiao - arXiv preprint arXiv:2509.05681, 2025

Decentralized Finance (DeFi) attacks have resulted in significant losses, often orchestrated through Adversarial Exploiter Contracts (AECs) that exploit vulnerabilities in victim smart contracts. To proactively identify such threats, this paper targets the explainable detection of AECs. Existing detection methods struggle to capture semantic dependencies and lack interpretability, limiting their effectiveness and leaving critical knowledge gaps in AEC analysis. To address these …

- Cites: Bitcoin: A peer-to-peer electronic cash system

[HTML] Block chain ready port terminal operations using distributed ledger

DK Boison, MO Doumbia, A Antwi-Boampong… - The Asian Journal of …, 2025

This study explores the application of blockchain (BC) technology in enhancing terminal operations at West African seaports, with a specific focus on Tema Port in Ghana. The purpose is to address inefficiencies in cargo processing, traceability, and data integrity that often impede port performance. Using a multi-layered qualitative approach, including observation and value stream mapping, the study examines current operational challenges at Tema Port and proposes a BC adoption model …

- Cites: Bitcoin: A peer-to-peer electronic cash system

[PDF] Mangrove: Fast and Parallelizable State Replication for Blockchains

A Paramonov, Y Vonlanthen, Q Kniep, J Sliwinski… - arXiv preprint arXiv …, 2025

Mangrove is a novel scaling approach to building blockchains with parallel smart contract support. Unlike in monolithic blockchains, where a single consensus mechanism determines a strict total order over all transactions, Mangrove uses separate consensus instances per smart contract, without a global order. To allow multiple instances to run in parallel while ensuring that no conflicting transactions are committed, we propose a mechanism called Parallel Optimistic Agreement …

- Cites: Bitcoin: A peer-to-peer electronic cash system

Resolving the Trilemma Challenge in Blockchain: An Integrated Consensus Mechanism for Balancing Security, Scalability, and Decentralization

KM Shafin, S Reno - Automatic Control and Computer Sciences, 2025

Finding a way to solve the trilemma, which requires striking a balance between scalability, security, and decentralization, is a persistent problem in the field of blockchain technology. In order to overcome this trilemma, this study presents a novel blockchain architecture that combines cutting-edge cryptography techniques, creative security protocols, and flexible decentralization mechanisms. Our framework is a new standard for secure, scalable, and decentralized blockchain ecosystems. It …

- Cites: Bitcoin: A peer-to-peer electronic cash system

Work Units: A Multidimensional Approach to Smart Contract Gas Estimation

I Kalinin - Irfan Awan· Muhammad Younas· George Ghinea …

Legacy blockchain protocols and their forks rely on gas metering algorithms primarily designed for economic fee calculation and resource limitation. While effective for constraining transaction execution, recent Ethereum data indicate that these approaches fail to address the complex synchronization challenges inherent in distributed consensus systems. This paper introduces Work Units, a multidimensional approach to smart contract resource estimation developed for the …

- Cites: Bitcoin: A peer-to-peer electronic cash system. 2008
