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[PDF] PlainDAG: A Low-latency Asynchronous DAG BFT Protocol With Best-effort Broadcast

Y Zhou, J Xiao, X Dai, H Jin - IEEE Transactions on Information Forensics and …, 2025

Broadcast primitives like Reliable Broadcast (RBC) are integral to Directed Acyclic Graph (DAG)-based asynchronous Byzantine Fault Tolerant (BFT) protocols. Despite recent advancements, these protocols often suffer from high latency due to the inherent three communication rounds in RBC. To mitigate this latency, we propose employing Best-Effort Broadcast (BBC) for message dissemination, which requires only one communication round. However, leveraging BBC poses challenges in …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

TrustFL: Robustness-Enhanced Privacy-Preserving Federated Learning Based on Blockchain

H Ma, J Qiu, S Huang, J Guo, Z Wang - IEEE Transactions on Emerging Topics in …, 2025

As a booming technology driving enterprise innovation, artificial intelligence (AI) has garnered significant interest in academia and industry. However, the use of AI raises a significant concern on “trust”. Trusted AI systems require the implementation of crucial safeguards such as privacy preservation, robustness, transparency, and decentration. To construct trusted AI systems, we propose a robustness-enhanced privacy-preserving federated learning scheme based on blockchain (TrustFL). Our …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

[HTML] Integration and Risk Transmission Dynamics Between Bitcoin, Currency Pairs, and Traditional Financial Assets in South Africa

BM Mudiangombe, JW Muteba Mwamba - Econometrics, 2025

This study explores the new insights into the integration and dynamic asymmetric volatility risk spillovers between Bitcoin, currency pairs (USD/ZAR, GBP/ZAR and EUR/ZAR), and traditional financial assets (ALSI, Bond, and Gold) in South Africa using daily data spanning the period from 2010 to 2024 and employing Time-Varying Parameter Vector Autoregression (TVP-VAR) and wavelet coherence. The findings revealed strengthened integration between traditional financial assets and currency …

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

[PDF] From Isolation to Integration: A Reputation-Backed Auditable Model for Cohort Data Sharing

J Zhang, X Li, R Feng, S Xu, Z Hou, H Wu, G Bai - IEEE Transactions on Dependable …, 2025

Data sharing is vital to breaking data silos and maximizing information value. However, practical implementations often rely on cloud servers, raising trust concerns that prevent Data Centers (DCs) from sharing sensitive data. Motivated by the need to ensure both the quality and quantity of shared data, we proposed a reputation-driven, auditable data-sharing model that uses blockchain to enable secure, distributed sharing. Our model faces two primary challenges:(1) ensuring …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

Attack Scenarios and Security Analysis of a Blockchain and PUF-based Lightweight Authentication Protocol for Wireless Medical Sensor Networks

M Knežević, S Tomović, MJ Mihaljević - IEEE Internet of Things Journal, 2025

In Wireless Medical Sensor Networks (WMSNs) wearable or implantable sensors are used to collect vital body parameters, allowing remote monitoring and advanced predictive and preventive healthcare. This involves transmitting patients' physiological data, which are sensitive and should be confidential, over the network. Thus, ensuring the security and privacy of these data is one of the most important prerequisites for the successful development of healthcare systems based on …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

[PDF] Investor Behavior in Cryptocurrency Market in Indonesia: The Role of Trust, Regulation, Digital Access and Risk Perception Through Psycological Empowerment

AP Jayani, F Adrianto, M Hamidi - Journal of Accounting and Finance Management, 2025

This study examines the determinants of investor behavior in Indonesia's cryptocurrency market, focusing on trust, regulation, digital access, and risk perception, with psychological empowerment as a mediating variable. Motivated by the rapid growth of crypto adoption in Indonesia alongside issues of volatility, regulatory uncertainty, and varying levels of digital literacy, the research aims to identify how these factors influence investment decisions. A quantitative explanatory …

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

[PDF] Blockchain-based decentralized public key infrastructure for digital credentials

Y Huang - 2025

Abstract Public Key Infrastructure (PKI), especially the X. 509 standard, is the backbone of secure digital communication, providing essential services such as authentication, encryption, and digital signature verification. X. 509 enables a certificate chain of trust, where Certificate Authorities (CAs) serve as the central trust

anchors. While X. 509 has proven to be effective in traditional centralized environments, it faces significant challenges such as single points of failure …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

[PDF] Dynamic Data Science Applications in Demand Forecasting and Finance

SB Mudiyanselage - 2025

This thesis studies advanced statistical, machine learning, and deep learning methodologies for demand forecasting and financial risk management. In electricity demand forecasting, neural network autoregressive (NNAR) models are explored alongside a novel fuzzy two-step forecasting framework that integrates interval temperature forecasts to generate intelligent probabilistic electricity demand forecasts. In order to address nonlinear dynamics and long-term dependencies in …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

[PDF] Price deviation in the stablecoin market and lead-lag relationships in the traditional cryptocurrency market

G Long - 2025

This thesis offers new insights on the exogenous and endogenous drivers of volatility and price deviation of fiat-collateralized stablecoins across centralized exchanges. It further investigate the high-frequency lead-lag effects across centralized exchanges and non-stable cryptocurrencies. Different empirical strategies are employed to explore and understand the complex mechanism regarding stablecoin volatility and mispricings, and the information transmission reflected in the high-frequency lead …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

[PDF] AI+ IoT+ Blockchain Triad for Smart Traceability in the Automotive Industry

K Patel

ABSTRACT The convergence of Artificial Intelligence (AI), Internet of Things (IoT), and blockchain is driving a new paradigm for traceability in automotive manufacturing. This paper presents a tri-layer integrated system employing IoT sensors for real-time data capture on a cowl stamping line, AI models for defect detection and process anomaly diagnosis, and blockchain for secure, tamper-proof traceability of part quality records. The proposed framework leverages IoT-enabled …

- Cites: Bitcoin: A Peer-to-Peer Electronic Cash System

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