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Integrating blockchain with virtual power plants: Two-level future roadmaps for enhanced performance

J Hong, E Song, J Choi, S Song, H Kim, H Kang... - *Technology in Society*, 2025

Blockchain is emerging as a major advanced technology to facilitate virtual power plants (VPPs), a means to address global environmental challenges through achieving zero carbon. As the blockchain market in the energy sector grows, the integration of blockchain into VPPs will continue to expand. To this end, this study comprehensively reviewed 129 previous studies integrating blockchain into VPPs to propose ways to enhance the performance of VPPs through blockchain. Based on ...

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



[HTML] Blockchain-driven business models

H Treiblmaier, A Rejeb, TM Tan, G Ongena - *Digital Business*, 2025

In this editorial, we introduce the Special Issue on Blockchain-Driven Business Models. Over the last decade, academics have proposed numerous ideas on how to integrate the unique properties of blockchain, such as immutability, traceability, and programmability, into existing business models or to utilize them for developing startups from scratch. Practitioners have tried out countless disruptive business ideas, some of which have failed, while others have already begun to transform ...

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



[HTML] Online exam cheating detection and blockchain trusted deposit based on YOLOv12

H Wang, Z Shukur, KA Zainol Ariffin, R Xiao, L Wang - *Scientific Reports*, 2025

In recent years, online examinations have been widely adopted because of their flexibility, but the covert and diverse nature of cheating behaviour poses a serious challenge to the fairness and integrity of examinations. Existing anti-cheating techniques are deficient in detecting diverse cheating behaviours in real-time and ensuring the credibility of evidence. To address this problem, this paper proposes an integrated solution for online exam cheating detection based on the lightweight ...

- Cites: Bitcoin whitepaper [↗](#)



[PDF] Can Complementary Currencies Foster Sustainability? A Systematic Review of the Impacts of Environmental Complementary Currencies

R Léo - Journal of Economic Surveys, 2025

Growing financial needs for a sustainable transition have led to the development of green finance and citizen-led monetary innovations. These initiatives recognized the necessity of developing new forms of money regarding the environmental crisis, referred to as environmental complementary currency (ECCs). ECCs aim to generate environmental benefits by rewarding pro-environmental behaviors, funding green projects, encouraging short supply chains and circular economies, and increasing ...

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



[HTML] JudicBlock: Judicial Evidence Preservation Scheme Based on Blockchain Technology

T Bhattacharjee, AS Mahapatra, D De, A Chowdhury - Blockchains, 2025

The electronic judicial evidence preservation systems face various challenges including regulatory control, data exchange, poor credibility, etc. To address these issues, a blockchain-based judicial evidence preservation framework, JudicBlock, is proposed in the present study. It combines the scalability of the Interplanetary File System with the transparency and security of public blockchain. By decentralizing data management and using cryptographic integrity, the system ensures reliable ...

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



Optimizing Ledger Query Performance: A Mango-Composite Key Adaptive Strategy for Blockchain-Based Supply Chain Systems

FAK Sekali, F Dewanta, Y Purwanto - 2025 International Electronics Symposium (IES), 2025

Efficient data querying in Hyperledger Fabric-based systems remains a significant challenge due to the decentralized architecture and limited query flexibility. Even though the Hyperledger Fabric offers mechanisms such as Mango Query and composite keys, those mechanisms have their own limitations, in which Mango Query lacks performance on multicondition searches, while composite keys are rigid and context-dependent. Moreover, the reliance on historical or off-chain data poses ...

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



[PDF] HISTORICAL VOLATILITY FLUCTUATIONS OF BITCOIN: INFLUENCED BY REAL-WORLD EVENTS

SD MOHAMED, MT ISMAIL - Journal of Quality Measurement and Analysis JQMA, 2025

Bitcoin market has exhibited substantial volatility over time. Bitcoin returns exhibit high standard deviation. This study employs the GARCH (1, 1) model with normal (norm), Studentt (std), and generalized error distributions (ged) to estimate Bitcoin conditional volatility. Bitcoin exhibits fat-tailed returns, volatility clustering, and a remarkably high persistence value. The GARCH (1, 1)-ged model showed superior performance compared to other models when evaluated using LL, AIC, and BIC ...

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



Implementation of a Transparent Blockchain-Based Zakat Management System for Sustainable Islamic Finance in Indonesia

IA Afif, A Sudarsono, M Yuliana, WA Fauzi - 2025 International Electronics ..., 2025

This paper presents a blockchain-based zakat management system for Indonesian Islamic finance, built on Hyperledger Fabric. The system implements a four-layer architecture with React/Next.js frontend, Go backend, and smart contracts deployed on 2-core VPS nodes. Performance evaluation across four operational scenarios shows sub-900 ms transaction latency with mean latencies between 481 ms and 748 ms. The system achieved 100% success rate across 1,212 test transactions. Smart ...

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



ПРОТИВОДЕЙСТВИЕ КРИПТОВАЛЮТНЫМ ПРЕСТУПЛЕНИЯМ В ЗАРУБЕЖНЫХ СТРАНАХ

ВФ ВАСЮКОВ, АГ ВОЛЕВОДЗ, КК КЛЕВЦОВ... - 2025

Учебное пособие посвящено актуальным вопросам применения современного уголовного права, решение которых основано на зарубежной судебной практике по уголовным делам о преступлениях в сфере обращения криптовалют. В нем представлены как доктринальные положения, раскрывающие содержание преступлений указанной категории, так и специально подобранные нормативные правовые акты, полицейская ...

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



Bitcoin, Gold, and Stock Market Volatility Including COVID-19 Periods: Comparative Analysis Using GARCH and DCC-MGARCH Models

L Kantar, T Azimova, M Akkaya, Y Hasan-Huseyin - Revista Finanzas y Política ..., 2025

Este estudio investiga la dinámica de volatilidad y las correlaciones variables en el tiempo entre Bitcoin (BTC) y los principales mercados financieros y de materias primas, incluidos el oro, el petróleo, el NASDAQ, el NIKKEI, el FTSE, el DAX y el índice del dólar estadounidense (USDINX). Utilizando datos diarios y modelos de la familia GARCH, se cuantificó la persistencia, la asimetría y la memoria a medio plazo en la volatilidad del BTC. La selección de modelos mediante los criterios de ...

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



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