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Applications of blockchain in internet of things: a survey, actual challenges and future perspectives

KN Erman, AC Cinar - Multimedia Tools and Applications, 2025

Abstract The Internet of Things (IoT) continues to reduce human involvement in daily operations while accelerating the digitalization of various aspects of life. As IoT device applications rapidly expand, the volume of shared and generated data has significantly increased. However, due to the inherent limitations in the architecture of IoT devices, securing locally stored data and ensuring the reliability of data shared across devices has become increasingly challenging. Traditional security measures …

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

[PDF] Gödelian Embodied Self-Referential Genomic Intelligence: Lessons for AI and AGI from Genomic Blockchain

SM Markose - Frontiers in Robotics and AI, 2025

Security of code based digital records has become a major concern of the 21st century. AI and AGI can be hacked to pieces by digital adversaries, or the fulfilment of AI objectives can lead to an existential threat. This sitting duck problem of all software systems is variously called the Control or Misalignment problem. Blockchain technology, circa 2009, with hashing algorithms relying on the consensus-based hashing algorithm mechanism in manmade software systems can keep early blocks …

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

Quality and Diversity Balanced Neighbor Selection against Eclipse Attack in Blockchain System

L Feng, C Hua, L Liu, J Hong - IEEE Transactions on Network and Service …, 2025

Blockchain technology has gained widespread adoption across diverse applications; however, its peer-to-peer network architecture remains susceptible to eclipse attacks via malicious neighbor infiltration. Existing defense mechanisms typically rely either on historical data to detect attacks post hoc or on diverse neighbor selection to prevent them. These approaches, however, exhibit critical limitations: detection-based strategies are inherently reactive, while diversity-based selection lacks …

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

[PDF] Potential and Risks of Staking Pools on Blockchains

H Gersbach, A Mamageishvili, M Schneider - Distributed Ledger Technologies …, 2025

On several proof-of-stake blockchains, agents engaged in validating transactions can open a pool to which others can delegate their stake in order to earn higher returns. We develop a model of staking pool formation in the presence of malicious agents and establish existence and uniqueness of equilibria. We then identify the potential and risk of staking pools. First, allowing for staking pools lowers blockchain security. Yet, honest stakeholders obtain higher returns. Second, by choosing …

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Invertir en criptoactivos con seguridad: Del trading al valor empresarial

RJ Maestre - 2025

Invertir en criptoactivos con seguridad: Del trading al valor empresarial: traduce la complejidad del universo cripto en estrategias prácticas y verificadas para unir la rentabilidad del trading con la adopción corporativa de blockchain y así multiplicar el valor de cualquier negocio. Además, te ayuda a anticiparte a la regulación MiCA ya aprovechar las 24 horas de oportunidades que ofrece un mercado global sin fronteras. Raúl Jaime Maestre condensa años de consultoría, docencia e …

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[PDF] Scalable Consensus Mechanisms for DAG-Based Blockchain Systems

M Khan - 2025

Blockchain technology has emerged as a transformative force in enabling decentralized, trustless systems across domains such as finance, healthcare, and supply chain management. However, traditional blockchain implementations rely on a linear structure where blocks are appended sequentially, an architecture that inherently limits scalability, restricts throughput, and incurs high computational and energy costs. These limitations make linear blockchains ill-suited for modern, high …

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[PDF] BLEND: Blockchain-Enhanced Network Decentralization with Large Language Models for Time Series Forecasting

R Abdel-Sater, AB Hamza

Time series forecasting plays a pivotal role in applications requiring predictive insights from sequential data, such as energy demand prediction in distributed systems. However, centralized learning models suffer from single points of failure and require aggregating sensitive data, while federated learning, though privacy-preserving, still relies on central servers that introduce computational bottlenecks. To address these limitations, we introduce BLEND, a decentralized framework for time …

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[PDF] FINANCIAL FINANCIAL TECHNOLOGY TECHNOLOGY

HE Puteri

Dengan mengucapkan puji syukur kehadirat Allah SWT, atas limpahan rahmat dan hidayahNya, maka Penulisan Buku dengan judul Financial Technology dapat diselesaikan. Buku ini berisikan bahasan tentang Fenomena financial technology atau fintech telah membawa perubahan signifikan terhadap ekosistem keuangan global dan nasional. Berbagai inovasi seperti pembayaran digital, peer-to-peer lending, blockchain, robo-advisors, hingga neobank, telah menjadi bagian tak …

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

[PDF] An Approach to Calculate Crypto Asset Carbon Emissions

T Puschmann, V Khmarskyi

The calculation of carbon emissions for crypto assets has been explored in various academic and practitioner approaches. However, the analysis of these approaches in this paper reveals that the assumptions and data which are being used are very heterogeneous and thus the results differ enormously. This paper uses an integrated approach that combines a transactionoriented view, which calculates carbon emissions on single crypto asset transactions and a networkoriented view, which …

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

[PDF] OPEN ACCESS SUBMITED 13 August 2025 ACCEPTED 28 August 2025

K Bhujel, I Ansari, KS Azim, SS Panchal - 2025

The advent of digital transformation, facilitated by state-of-the-art IT systems, is changing the strategic paradigm of corporate finance by empowering organizations to attain increased efficiency, transparency, and nimbleness in the financial decisionmaking process. This article discusses how IT can serve as a strategic tool in generating quantifiable business value in the context of corporate finance departments, in particular its impact as a driver of capital allocation and risk …

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