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Valisher Abirov ; Nodir Karimov ; Sojida Abdurazakova ; Zafar Khasanov ; Mukhammadkhuja Saitkamolov ; Sadoqat Normurodova

All Authors

Abstract

Document Sections

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The authentication and preservation of historical texts are crucial for safeguarding cultural heritage and ensuring the accuracy of historical records. Traditional archival methods face challenges such as data

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The authentication and preservation of historical texts are crucial for safeguarding cultural heritage and ensuring the accuracy of historical records. Traditional archival methods face challenges such as data manipulation, degradation, and unauthorized modifications, making it difficult to verify the authenticity of historical documents. Existing digital preservation techniques often rely on centralized systems that are vulnerable to cyber threats and data loss. To overcome these limitations, we propose B-HAP (Blockchain-based Historical Authentication and Preservation), a decentralized framework leveraging blockchain technology (BT), cryptographic hashing, and smart contracts to ensure immutable and verifiable records. B-HAP provides a transparent and tamper-proof ledger for storing historical texts, where each document is digitally signed, timestamped, and validated by a distributed network. This ensures secure provenance tracking, preventing forgery and unauthorized alterations. The proposed method enhances the integrity, reliability, and accessibility of historical archives, offering a robust solution for long-term preservation. Experimental results demonstrate that B-HAP effectively mitigates the risks associated with traditional archival systems while maintaining high efficiency and security. By integrating blockchain into historical preservation, this approach ensures that valuable texts remain authentic and accessible for future generations.

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II. Survey

III. Proposed Work

IV. Performance Analysis

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