

Evidence Protection and Assisting Police using Blockchain

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Abstract: *The dependence on digital evidence in the justice system is growing rapidly, highlighting the urgent requirement for systems that are secure, efficient, and resistant to tampering. This study introduces a blockchain-integrated evidence management system designed to enhance the authenticity, reliability, and traceability of digital evidence. By utilizing blockchain's decentralized ledger technology, the system records evidence interactions such as submissions and access events, ensuring immutability and transparency. It addresses several drawbacks in conventional systems, such as vulnerability to tampering, manual inefficiencies, and inconsistent documentation. This innovative framework empowers law enforcement to maintain reliable digital trails, boosting public confidence and trust in judicial processes..*

Keywords: Blockchain, Digital Evidence, Chain of Custody, Law Enforcement, Evidence Tracking

