

عنوان مقاله:

Blockchain Technology in the Construction Industry: Integrating BIM in Project Management and IOT in Supply Chain Management

محل انتشار:

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خلاصه مقاله:

Application of blockchain in the construction industry is still in its initial stage. The construction project management and supply chain management are facing many challenges including lack of payment, transparency and adequate collaboration for sharing information. blockchain can help make the process more efficient, transparent, and accountable to all project participants. Furthermore, all of the distributed data recorded on the blockchain is immutable. This paper presents two framework: Firstly) Integrating blockchain and BIM (Building Information Modeling) to enhance efficiency in project management. Secondly) Integrating blockchain and IOT (Internet of Things) to enhance efficiency in Sustainable Supply Chain Management. Proposed technical solutions show implements methods for tracking, certification, quality control and authentication, that there is real potential for blockchain .technology to increase collaboration among participates, transparency and traceability through smart contract

کلمات کلیدی:

Blockchain, Construction, smart contract, supply chain management, BIM, IOT

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