

Construction of a Secure Information Resource Sharing Model for Digital Libraries Based on Consortium Blockchain [Retracted] Postprint

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Abstract

[Purpose/Significance] To address issues such as “information silos” in the development of digital libraries, this study constructs a novel secure sharing model for digital library information resources, aiming to break down barriers between resource owners and demanders and improve the current state of digital library resource sharing. [Method/Process] Consortium blockchain technology is introduced to construct a secure sharing model for information resources based on a digital library consortium chain. The basic structure, technical means, functional requirements, sharing mechanisms, and other aspects of the model are discussed in detail, and its characteristics and advantages are analyzed. [Results/Conclusion] The digital library information resource secure sharing model constructed in this study features high security, good interoperability, and favorable operational efficiency. It can effectively solve the “information silo” problem and promote the secure sharing of information resources.

Full Text

Preamble

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Note: Figure translations are in progress. See original paper for figures.

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