

The Role of Blockchain Technology in Modern Network Security Solutions

ABSTRACT

With the rapid growth of the Internet, the issue of network information security has become more serious. Traditional security methods rely on centralized systems, making them vulnerable to attacks and data tampering. Blockchain technology, being decentralized and resistant to tampering, offers a promising solution for enhancing network security. This paper explains the basic principles and security features of blockchain, explores how it can be used to protect network information, and looks at its applications in areas like identity protection, food supply chains, and online-to-offline (O2O) services.

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