

Developing some methods for information security and authentication.

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Abstract: In the context of increasingly complex cybersecurity threats, this research focuses on developing and optimizing security and information authentication methods to protect data integrity. The objective of the topic is to build a multi-layer security system, combining advanced encryption algorithms and modern biometric authentication mechanisms. The research methodology includes analyzing security vulnerabilities, thereby proposing new technical solutions to enhance resistance against unauthorized access attacks. The expected results of the research not only establish solid technical barriers but also provide an important theoretical and practical framework for implementing security systems.

Keywords: information security, data authentication, advanced encryption, cybersecurity, biometrics