Study of Elliptic Curve Cryptography and some practical applications

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Abstract: In the context of information security becoming increasingly important, this topic aims to study the theory and application of Elliptic Curve Cryptography (ECC). ECC is considered a potential solution due to its high security with smaller data sizes compared to traditional methods. Through analyzing key formulas and implementing an experimental system, the topic aims to contribute to the development of safe and efficient information technology.

Keywords: Elliptic curve cryptography, information security, cryptographic applications