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(57) Abstract :

The present invention describes a system (100) and method (300) for improving the security of a database (110) by applying genetic operators to cryptographic techniques. The proposed system (100) applies a combination of genetic techniques and cryptographic techniques to enhance the security of data stored in a database (110). The system (100) includes a database management unit, a cryptographic unit, and a genetic processing unit. The database management unit is responsible for managing the data stored in the database (110). The cryptographic unit is responsible for encrypting and decrypting data stored in the database (110). The genetic processing unit is responsible for selecting the best cryptographic techniques and parameters for a given dataset and modifying the one or more cryptographic keys in real-time, making the database (110) more resistant to brute-force attacks.

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