Abstract

Cryptography is a basic tool for protection and securing data. Security provides safety, reliability and accuracy. Genetic Algorithm (GA) is typically used to obtain solution for optimization and search problems. This paper presents application of GA in the field of cryptography. The selection of key in the field of public key cryptography is a selection process in which keys can be categorized on the basis of their fitness function, making GA a better candidate for the key generation. We propose a new approach for e-security applications using the concept of genetic algorithms with pseudorandom sequence to encrypt and decrypt data stream. Many different image encryption methods have been proposed to keep the security of these images. Image encryption algorithms try to convert an image to another image that is hard to understand.

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Index Terms

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