Abstract

In this paper a new algorithm for encryption and decryption is introduced. The process of substitution and genetic function is the core of the proposed algorithm. In this encryption technique two keys are required for the encryption or decryption of a message. Input stream will be produced intermediate cipher text on which two stages of crossover will be used in the process of encryption and decryption to produce final cipher text.

References
- Poonam Garg, "Genetic algorithms and simulated annealing: a comparison between three approaches for the crypto analysis of transposition cipher"; IMT, INDIA-2004
- Dr. G. Raghavendra, Nalini N, "a new encryption and decryption algorithm combining the features of genetic algorithm (GA) and cryptography"; NIE, Mysore.
- A. J. Bagnall, "the application of genetic algorithms in cryptanalysis"; School of information system, University of East Anglia, 1996
- N. Koblitz, "a course in number theory and cryptography"; Springer-Verlag, New York, 1994
- R. Toeneh, S. Arumugam, "Breaking Transposition cipher with genetic algorithm"; Chennai, India
- Bethany Delman, "Genetic algorithm in cryptography"; Rochester, New York, July – 2004
- Atul Kahate, "Cryptography and Network Security"; 2nd edition, TATA McGRAW HILL

Index Terms

Computer Science
Computing, Communication
And Sensor Network

Keywords
Substitution Encryption Decryption Key Crossover Cipher Text Plain Text