Abstract

Today's data transmission over an unsecure channel has increased widely. There is a crucial need to some security measures to transmit our data securely. Steganography is an art of "invisible" communication. In steganography the secret message is concealed inside other media cover such as text, image, video and audio form. Firefly Algorithm (FA), metaheuristic algorithm has been used for solving various optimization problems. In this study, Levy flight firefly algorithm (LFA) is employed to solve the problem of 24-bit color image steganography. In the proposed approach, firefly algorithm is initialized with a population of fireflies which will carry each secret byte in the form of different patterns based on rotated reversed method to improve the search process and enhance the security issue. During the iterations, the pattern of the more attractive (brighter) firefly

References

1. Darshni, P.; Ghanekar, U., "A Hybrid Data Hiding Scheme to Enhance the Capacity of
Improving Image Steganography using a Proposed Mutated Levy-Flight Firefly Algorithm


Index Terms

Computer Science Algorithms

Keywords

Steganography, Cover-image, Steg-image, Pattern, LSB, Firefly Algorithm.