Abstract

Steganography is the art of hiding information on other information. The aim of steganography is to secure information which is transmitted. There are various methods in this steganography. One of them is a Dynamic Cell Spreading method which has advantages in terms of security because it uses a bit stream as a key and in terms of speed as it involves the allocation of memory. But there is still weakness which is the current distance of bits to cover information is still limited.

To overcome this problem, this final project will be carried out modifications to the bit stream generation to overcome the weakness and improve the security while still maintaining system performance. The modification is made by modifying bit stream using PRNG and hash function. Then the results of these modifications will be implemented on a system that is built and further will be analyzed as well. Using this method the security of modified Dynamic Cell Spreading was improved while maintaining system performance.

Keywords*: Steganography, Dynamic Cell Spreading, modification, bit stream, security, performance*