Abstract

In this paper we want to show a system to realize a cryptography code. This system must ensure a high level of security using Information Fusion (IF) technique. In particular, we have decided to merge two codes generated by an algorithm of Public-key Cryptography and by fractals relations respectively. This IF method has been presented with a different use. In fact, in the previous paper, was created an identification access key but now we want to generate a very random Cryptography key to be used for encryption.

The choice of using fractals to generate numbers to be fused with codes of Public-Key Cryptography, is due to the randomness of these structures. The idea is to use these features for cryptographic applications such as One-Time-Pad. The modified fusion technique is called F&NIF (Fractal & Numerical Information Fusion).