Grayscale Image Encryption using Cellular Automata

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Abstract

In this paper, second order cellular automata is applied on a grayscale image as block cipher using 128 bit key. Also different security analysis are applied for variants of iterations and rounds using block identifier as an additional input to the cipher.

References

2. Faraoun Kamel, ”Fast encryption of RGB color digital images using a tweakable cellular automaton based schema” Optics & Laser Technology 64 (2014) 145–155


**Index Terms**

Computer Science  
Image Processing

**Keywords**

Image encryption, Block cipher, Symmetric key cryptography.