Abstract

In the present time, due to the rapid growth of digital communication and multimedia application, security becomes an important issue of communication, storage, and transmission of digital data such as image, audio, and video. Chaotic map-based encryption is one of the ways to ensure high security of image data. Encryption techniques are used in many fields such as medical science, military, geographic satellite images. Thus, due to this protecting the image data confidentiality, integrity, security, privacy as well as the authenticity has become an important issue for communication and storage of images via insecure channels like internet. Modern cryptography technique provides essential techniques for securing information and protecting multimedia data. In recent years, many encryption technologies have been proposed. In this paper, first, a general introduction given for cryptography and images encryption and followed by discussion of different types of chaotic-based image encryption techniques and reviewed the related works for each technique. At last, the main purpose of this paper is to help in designing new chaotic-based image encryption techniques in future by studying the behavior of several existing chaotic-based image encryption algorithms.
A Review on Multiple Chaotic Maps for Image Encryption with Cryptographic Technique

References

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