Abstract

In recent years, many multimedia and image encryption techniques based on chaotic maps have been proposed. In this paper, we propose a novel multimedia data encryption technique called MDEA (Multimedia Data Encryption Algorithm). Proposed encryption scheme is based on two digital chaotic maps, which in turn are used to generate two different chaotic sequences. Detail description of the proposed encryption technique and performance analysis of MDEA on various parameters of security is given in later sections of this paper.

References

- J. C. Yen and J. I. Guo, "A new image encryption algorithm and its VLSI
A Novel Encryption Scheme based on Piecewise Linear Chaotic Maps for Multimedia Data


Index Terms

Computer Science

Security

Keywords

Multimedia Encryption Decryption Multimedia Data Encryption Algorithm (MDEA)

Piecewise Linear Chaotic Map (PWLCM)

Image Encryption Scheme (IES).