Abstract

Encryption is the widely used technique to offer security for video communication and considerable numbers of video encryption algorithms have been proposed. The paper explores the literature for already proposed video encryption algorithms with the focus on the working principle of already proposed video encryption schemes. This study is aimed to give readers a quick overview about various video encryption algorithms proposed so far.

References

A Comprehensive Survey of Video Encryption Algorithms

- Meyer J, Gadegast F. Security mechanism for multimedia data with the example MPEG-1 video, project description of SECMPEG. Technical University of Berlin;1995.
- Choon, L. S. Lightweight and cost-effective MPEG video encryption. International Conference on Information and Communication Technologies: From Theory to Application 2004:525-526
- C. Shi, S. Y. Wang, B. Bhargava, "MPEG video encryption in real time using secret key cryptography", in : proceedings of the international conference on parallel and distributed processing techniques and applications(PDPTA99), Las Vegas, Nevada, USA, 1999
- Li S, Chen G, Cheung A, Bargava B, Lo KT. On the design of perceptual MPEG-video encryption algorithms. IEEE transactions on Circuits and Systems for video technology 2007;17(2);214-23
for Video Technology (12)(6):545-57;June 2002
  - G. Jakimoski, K. P. Subbalakshmi, Cryptanalysis of some multimedia encryption schemes, IEEE transactions on multimedia 10(3)(2008)
  - C. Bergeron, C. Lamy Bergot, compliant selective encryption for H. 264/AVC video streams, in:proceeding of 7th IEEE workshop on multimedia Signal processing, Shanghai, China, October 2005:1-4

Index Terms

Computer Science
Multimedia
Keywords

Video encryption  video security requirements  video encryption evaluation metric
self adjustable encryption
codec independent