Abstract

In the recent years with the development of internet technologies, video technologies have been broadly used in TV, communication and multimedia, so security is required on video data. Although much video encryption technique has been develop but not give so much efficiency in terms of encryption and decryption process. However, they are more complex to implement as a system and are difficult to be applied in a widespread manner. Here we propose a new novel scheme for digital video encryption. In this paper we give a method to generate an encrypted video by encrypted Video-frame. Based on novel secure video scheme, an effective and generalized scheme of video encryption. It is a matrix computation scheme which uses a concept of Video-frame and xor operation. This paper proves that proposed scheme is able to fully encrypt the video frame and have a better performance that can be measured by different Parameters. Further we can extend our approach into a digital video stenography.
A Novel Approach of Digital Video Encryption

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Index Terms

Computer Science

Multimedia

Keywords

video encryption  video-frame  security  sorting  formation algorithm