Copyright Assurance Scheme for computerized Color Images Utilizing Key based Visual Cryptography Watermarking

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Abstract

With rapidly growing network, Internet has turned into an essential wellspring of transmitting confidential or secret data, for example, military data, money related records, and so forth. In such cases, strategies committed to ensure such kind of information are needed and they play an imperative role in providing confidential and secure transmission over network. Visual cryptography scheme is a cryptographic strategy which allows visual information to be encoded in such a way that the decoding can be performed by the human visual system, without the guide of PCs. In this article, it is proposed that a copyright assurance scheme for computerized color images utilizing key based Visual Cryptography Watermarking to accomplish the requirements of robustness and security. The master share is encoded with a copyright image to form another share called proprietorship share. The master share is kept with a central authority and possession share is kept by the copyright proprietor. In case of any dispute, the master shares and proprietorship shares can be stacked together to give the copyright image confirming the possession about the host picture. The imperative feature of this technique is
that it will not disturb the host image either during copyright generation nor during copyright check. At long last, trial comes about demonstrate that the proposed plan can oppose a few basic assaults.

References


**Index Terms**

Computer Science  
Security

**Keywords**

watermarking, secret sharing, visual cryptography, copyright protection, image processing.