Abstract

Digital video contents now become easily available through internet and various media. The ease of availability made digital video popular over analog media like film or tape. At the same time it demands a sharp attention regarding the ownership issue. The ownership and integrity can easily be violated using different video editing softwares. In this regard we are proposing a framework which is able to embed a color watermark logo into the video frames of a video content. The quality of original video doesn’t degrade, because in watermarked video, the color watermark is perceptually invisible to Human Visual System (HVS). As we are proposing blind extraction method, at the extraction end the prior knowledge of watermark or original video is not needed. The security issue is ensured with the help of a hash function and a secret key. The robustness of the proposed system is proven against different intentional attacks.
Reference

- “Evaluation video sample (standard definition)”, The Institute of Image Information and Television Engineers.
- Pradosh Bandyopadhyay, Soumik Das, Shauvik Paul, Prof. Atal Chaudhuri, Dr. Monalisa Banerjee, “A Dynamic Watermarking Scheme for Color Image Authentication,”— Accepted in International Conference on Advances in Recent Technologies in Communication and Computing 2009, and Selected for IEEE Xplore and IEEE CS Digital Library.

Index Terms

Computer Science
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Key words

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blind extraction