Abstract

This paper presents a novel technique to protect the copyright information by embedding a bit map image as watermark into the frames of videos in such a way in could be extract to proof the ownership from the video contents. The proposed scheme produce a robust video watermarking scheme into two bands therefore named as multiband with strength \( ?1 \) and \( ?2 \) respectively, which result from applying the discrete wavelet transform of every video frame. The watermark is embedded into LLLL band obtained by second level wavelet decomposition and into HH band obtained by single wavelet transformation. Various attacks, such as gaussian noise addition, cropping and rotation, have been applied in order to test the robustness of watermark. Experimental results shown in table 1 and table 2 clearly indicate that we have extracted the watermark successfully from various types of attacked video frames.

References

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Copyright Protection using Video Watermarking based on Wavelet Transformation in Multiband

Index Terms

Computer Science

Security

Keywords

Discrete Wavelet Transform Multiband Human Visual System