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An Efficient Approach for Video Watermarking using Wavelet Transform

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Abstract—Digital video watermarking is used for copyright protection and authentication of multimedia data in a networked environment like government information , military and defence data etc. It makes possible to identify the author, owner, distributor or authorized consumer of a document. In this paep, we propose a new video watermarking approach based on discrete wavelet transform(DWT), discrete cosine transform(DCT) and singular value decomposition(SVD) technique in order to protect digital media copyright efficiently. The aim for this work is to achieve low payload with high robustness. The robustness of this technique is tested by applying different types of attacks. Proposed scheme is used to get good image quality of watermark image with better peak signal to noise ratio(PSNR), correlation coefficient(CR) and payload.

Keywords –Video watermarking, DWT, DCT, SVD

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