Abstract

Globalization and internet are the two main reasons for rapidly spreading of the multimedia information and due to that ownership and copyright of multimedia files are not usually protected by the providers. Digital watermarking is one of the best ways for copyright protection. Researchers are trying to invent new techniques that increase the security, Robustness and many more things. In this paper we proposed a new technique based on DCT. In this technique bits used as a watermark are inserted in whole audio file. Watermarked bits are inserted in all frames' first bit in such a way that it should not affect the original media file. This method is comparatively easy to implement, more robust and can carry more data as a watermark.

References

- Iynkaran natgunanathan, yong xiang, you rong, "robust patchwork based embedding and decoding scheme for digital audio watermarking", IEEE transaction on
audio, speech and language processing, vol. 20 October 2012.


**Index Terms**

Computer Science  
Image Processing

**Keywords**

Audio watermarking  
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DWT  
Echo Hiding