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.
- Hooman Nikmehr, Sina Tayefeh Hashemy, &quot;A new approach to audio
watermarking using discrete wavelet and cosine transforms&quot; 1st International Conference
on communications Engineering, university of sistan & baluchestan page no. 1-10, 22-24
December 2010.
- Ms. komal V. Goenka, Ms. Pallavi K. Patil, &quot;overview of audio watermarking
techniques&quot;, international journal of emerging technology and advanced engineering
ISSN 2250-2459,Volume 2, issue2, February 2012.
- Mayank Sharma, Savita Shiwani, &quot;noise attack analysis on non-blind dwt
watermarking algorithm&quot; International Journal of Emerging Technology and Advanced
Y. Tagawa, &quot;Electron spectroscopy studies on magneto-optical media and plastic
[Digests 9th Annual Conf. Magnetics Japan, p. 301, 1982].
- O. T.-C. Chen and W.-C. Wu, &quot;Highly robust, secure, and perceptual quality
- Darshana Mistry, &quot;Comparison of Digital Water Marking methods&quot;
- Gaurav Chawla, Ravi Saini, Rajkumar Yadav, Kamaldeep, &quot;Classification of
Watermarking Based upon Various Parameters&quot; International Journal of Computer
- Yusuf Perwej, Firoj Parwej, Asif Perwej, &quot;An Adaptive Watermarking Technique for
the copyright of digital images and Digital Image Protection&quot; The International Journal of
- Ying Yang, Xingming Sun, Hengfu Yang &quot;Removable visible image watermarking
- Z. Liu and A. Inoue, &quot;Audio watermarking techniques using sinusoidal pattern
based on pseudorandom sequence,&quot; IEEE Trans. Circuits Syst. Video Technol., vol. 13,
- Valizadeh and Z. J. Wang, &quot;Correlation-and-bit-aware spread spectrum
- N. Cvejic and T. Seppänen, &quot;Spread spectrum audio watermarking using
frequency hopping and attack characterization,&quot; Signal Process., vol. 84, pp. 207–213,
2004.
- B.-S. Ko, R. Nishimura, and Y. Suzuki, &quot;Time-spread echo method for digital
- Y. Xiang, D. Peng, I. Natgunanathan, and W. Zhou, &quot;Effective pseudonoise
sequence and decoding function for imperceptibility and robustness enhancement in
time-spread echo based audio watermarking,&quot; IEEE Trans. Multimedia, vol. 13, no. 1,
- Y. Xiang, I. Natgunanathan, D. Peng, W. Zhou, and S. Yu, &quot;A dual-channel
time-spread echo method for audio watermarking,&quot; IEEE Trans. Inf. Forensics Security,
A Review on New Technique for Embedding Image into Audio as a Watermark using DCT


Index Terms

Computer Science  Image Processing

Keywords

Audio watermarking  DCT  DWT  Echo Hiding