An Audio Watermarking Approach in Discrete Wavelet Transform Domain

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Abstract

A popular approach employed to embed imperceptible structures into digital media files in order to hinder unauthorized copying distribution is digital watermarking. Digital watermarking adds additional information into an audio file without influencing quality of our file size. This additional information can be used for inserting copyright information or a customer identity into the audio file. In this system, the Discrete Wavelet Transform(DWT) coefficient block is employed to embed the watermarking because it is widely used to analyze non-stationary signals like audio. The watermark detection process can be performed without using original audio signal. The experimental results reveals that watermark sequence is robust to many attacks such as noise adding, cropping, zeroing and duplicating. This system is implemented by MATLAB.