ABSTRACT

With the development of the growth of the information on the internet, the spread of digital media on internet easily to obtained. This easiness led violations of the ownership of multimedia data such as multimedia data retrieval illegally and modification of the multimedia data. Because of this problem to keep the ownership of digital data it needs watermark techniques in a host data such as picture, sound, and video. Watermarking is a concealment information method that mark out without damaging the original media. In this study conducted audio watermarking with text with expectation that the embedded text does not interfere audio quality and the embedded watermark resistant from attack. The implementation is done with MATLAB software. The method used DWT and Phase Coding, watermarked audio testing at ambient mode (audio watermark detection is recorded gain at certain distance). The results obtained during extraction without attack value of BER = 0 and at ambient mode lowest BER value is 0.21. With this method the audio resistant from the attack of LPF, BPF, stereo to mono, noise, resampling, time scale modification, MP3 compression with value of BER = 0.

Keyword: Audo Watermarking, DWT, Phase Coding, ambient mode