Abstract:

For the last decades, the secure transmission of the media including (audio, image and video) is a big issue. In this paper a method of transmitting an encrypted audio message in a noisy channel was implemented, this was done by applying a random two-dimensions map which generated by using two dimensions of chaotic map (Modified Arnold Cat Map MACM) as a key, and the noisy channel used in this work is Addaptive White Gaussian Channel (AWGN). The tests of encryption are performed and the results are observed by Matlab. Also this algorithm was implemented and tested for different sizes of audio files.