

ABSTRACT

Lately, the music is very interesting because the public interest, they want to know how to play the instruments music is, in essence, music is the combination of signals - audio signals are combined with a variety of musical sounds. The final task is discussed how the separation of sound equipment - musical instruments to facilitate the public to learn to play a musical instrument of the song they hear and can facilitate the processing of sound re-recording the music in the business.

Method of Independent Component Analysis (ICA) is closely related to Blind Signal Separation methods that can separate independent signals are mixed, so that will be recognizable voice signal can be separated from the interference surces. To test the accuracy of this musical instrument sound separation, giving AWGN noise is also needed because this system gives emphasis on the determination of the time and frequency in which the harmony of the music of different sources. In this last project, ICA method is able to separate the music instrument music saxophone, guitar and piano individually down to zero of mean opinion square value.

Keywords: ICA, AWGN