Abstract

Sometimes in the process of recording sound we get the problem because of the mixed of unwanted sound. To solve that problem there are method called ICA (Independent Component Analysis), that can separated the mixed signal. One of the algorithm which using the ICA method is EFICA (Efficient Fast Independent Component Analysis).

EFICA algorithm will be used to separating mixed sound signal form two kinds of recording, there are a sound mixed in simulation that we get from separate sound recording than we mixed it in simulation and a sound mixed in natural. The result is we get SNR values are always above 20 dB from sound mixed in simulation which means the algorithm has good performance, but for sound mixed in natural cannot be separated because of delay in the real world.

Keywords: *Independent Component Analysis, Efficient Fast Independent Component Analysis,sound mixed simulation, sound mixed natural*.