

Abstract

The separation of mixed sources is a challenging task. Usually the characteristic of signals was applied under little information of the mixed signals. In this proposal, related works about the field was first referred. Different instruments will have a different harmonic structure , Bayes Classifier ° In addition, we also apply supervised learning, training two groups of harmonic structure from two different music instruments. The input signals, separated harmonic structure can be determined based on SVM (Support Vector Machine) to separate the mixed source.

The experiment results were obtained from three simulations. First, from the MATLAB simulation, it shows that the mixed signals can be separated clearly.