Detection of Impulive Sound for the hearing impaired people

Proof of COncept of the Model created and tested in MATLAB Ayush Kumar 22-May-2017 15:05:31

Abstract

The aim of the project is to create a device for the detection of impulsive sound for the purpose of assisting hearing impaired people. The final product include a band which will be integrated with an android app. This MATLAB model will be replicated in the android app. In this model, every incoming sound is analysed with overlapping frames computing a total of 160 features for 250 ms of sound. These features are classified with neural network classifier and categorized as beloging either to car horn or cry of a baby.