Baseline features and algorithms

2 second record length

Normalized octave spectrum from 31.5 Hz band to 16 kHz band

Normalized such that the total power of the spectrum is unity

Logistic regression

Feature options

Normalized octave spectrum

Normalized 1/3 octave spectrum

Cepstrum octave

Cepstrum 1/3 octave

Normalized 256 point FFT

Normalized 2048 point FFT

Wavelets

?

Classifiers

Logistic regression

SVM

Neural networks

Long short-term networks

?

Other questions

Clustering – Do the acoustic signals form natural clusters in the feature space?