



**Experiments**

**onview**



In: Low Resolution Speech  
with noise, reverberation,  
clipping, etc.



### Restoration using regression based model

Time Domain Model

STFT

Frequency Domain Model

iSTFT

### Restoration using voicefixer

STFT

MelFB

Mel Restoration Module

Vocoder



Out: High Quality Speech



Regression based SSR *VS* Regression based GSR *VS* Fixed GSR

board

**SSR**

**Voicewriter**



**Regression**

*vs*

**GSR**

**GSR**

Regression

*v* *s*

board

**Generar**



**Speech**

**Restoration**

$$p_1=0.25,p_2=0.25,p_3=0.5,\theta_{low}=0.06,\theta_{high}=0.9,C_{low}=750,C_{high}=22050,O_{low}=2,O_{high}=10,S_{1low}=-5,S_{1high}=40,S_{2low}=0.3,S_{2high}=1.0.$$

Distorted Speech

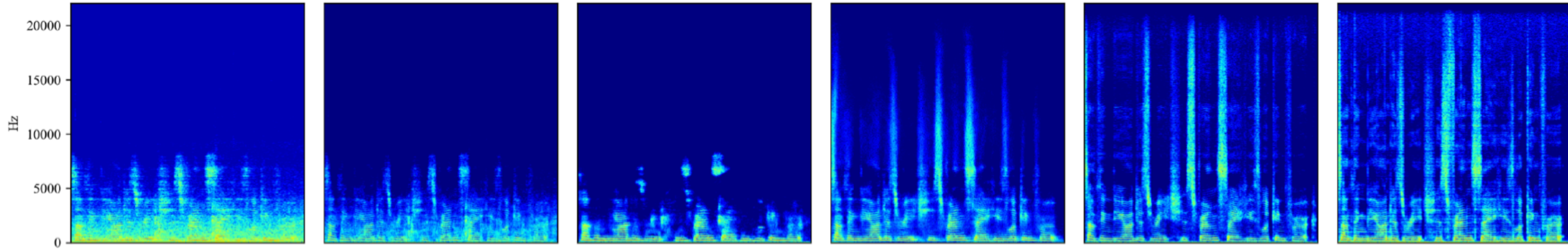
Dereverberation SSR Model Output

Enhancement SSR Model Output

Regression based GSR Model Output

VoiceFixer GSR Model Output

Target



dotween

speech

Comparison

different



resistor

methnods