Experiments

Models

Table.7

report

the

experiments

we

All

this

Name	VoiceFixer	SSR	GSR	Training sets	Testing sets
Unprocessed	✗	✗	✗	/	DENOISE; DEREV; SR; DECLI; ALL-GSR;
Oracle-Mel	✗	✗	✗	/	DENOISE; DEREV; SR; DECLI; ALL-GSR;
Vocoder-TFGAN	✗	✗	✗	VCTK-Train; HQ-TTS; AISHELL-3	DENOISE; DEREV; SR; DECLI; ALL-GSR;
Denoise-UNet	✗	✓	✗	VCTK-Train; VD-Noise;	DENOISE; ALL-GSR;
Dereverb-UNet	✗	✓	✗	VCTK-Train; RIR-Train;	DEREV
SR-UNet	✗	✓	✗	VCTK-Train;	SR
Declip-UNet	✗	✓	✗	VCTK-Train;	DECLI
NuWave	✗	✓	✗	VCTK-Train;	SR
SEANet	✗	✓	✗	VCTK-Train;	SR
SSPADE	✗	✓	✗	/	DECLI
GSR-UNet	✗	✗	✓	VCTK-Train; VD-Noise; RIR-Train;	DENOISE; DEREV; SR; DECLI; ALL-GSR;
VF-DNN	✓	✗	✓	VCTK-Train; VD-Noise; RIR-Train;	DENOISE; DEREV; SR; DECLI; ALL-GSR;
VF-BiGRU	✓	✗	✓	VCTK-Train; VD-Noise; RIR-Train;	DENOISE; DEREV; SR; DECLI; ALL-GSR;
VF-UNet-S	✓	✗	✓	VCTK-Train; VD-Noise; RIR-Train;	DENOISE; DEREV; SR; DECLI; ALL-GSR;
VF-UNet	✓	✗	✓	VCTK-Train; VD-Noise; RIR-Train;	DENOISE; DEREV; SR; DECLI; ALL-GSR;

Evaluation

Metrics

(SSIM)

distance

Signal

- Structural

(LSD)

- Log-spectral

- Scale

Similarity

(SiSNR)

Noise

Invariant

to

Spectralgram

Ratio

to

Ratio

Noise

(SiSPNR)