

Deep Learning Audio

Lecture 7

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Outline

1. Text-to-speech

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WaveNet

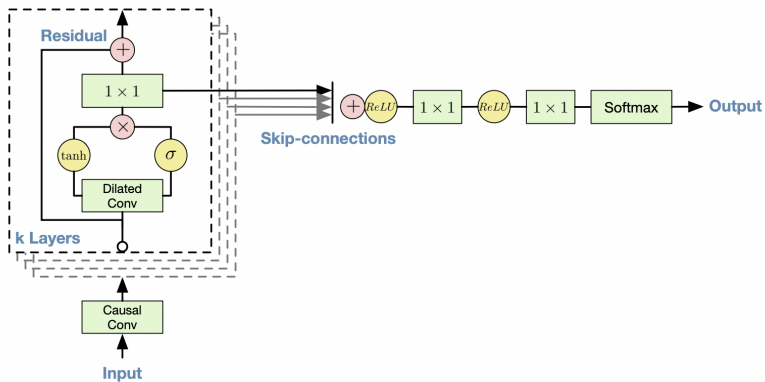
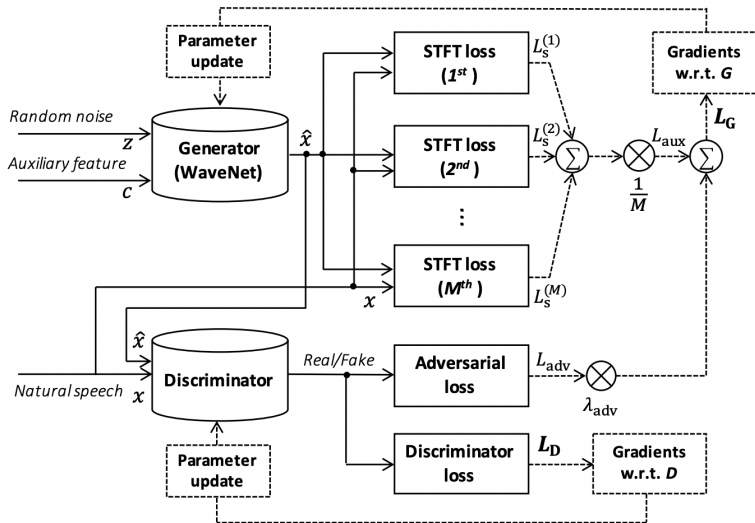


Figure: Wavenet

Mu Law Encoding

Parallel WaveGAN



Yamamoto et al., *Parallel Wavegan: A Fast Waveform Generation Model Based on Generative Adversarial Networks with Multi-Resolution Spectrogram*, IEEE ICASSP, 2020

Figure: Parallel WaveGAN

STFT Loss

Takaki et al., STFT Spectral Loss for Training a Neural Speech Waveform Model, IEEE ICASSP, 2019