

Voicewriter

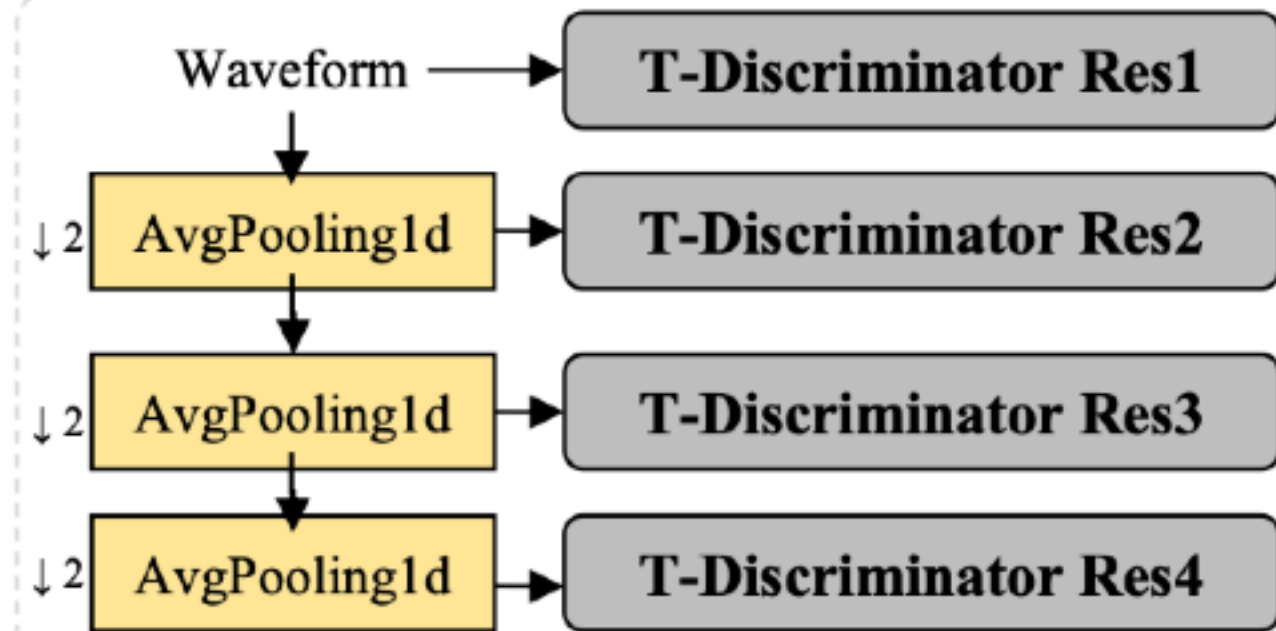
SynthesisModule-TFGANVideo-Training

- The loss functions for generator include time domain losses L^T , frequency domain losses L^T , and discriminator losses L^D .

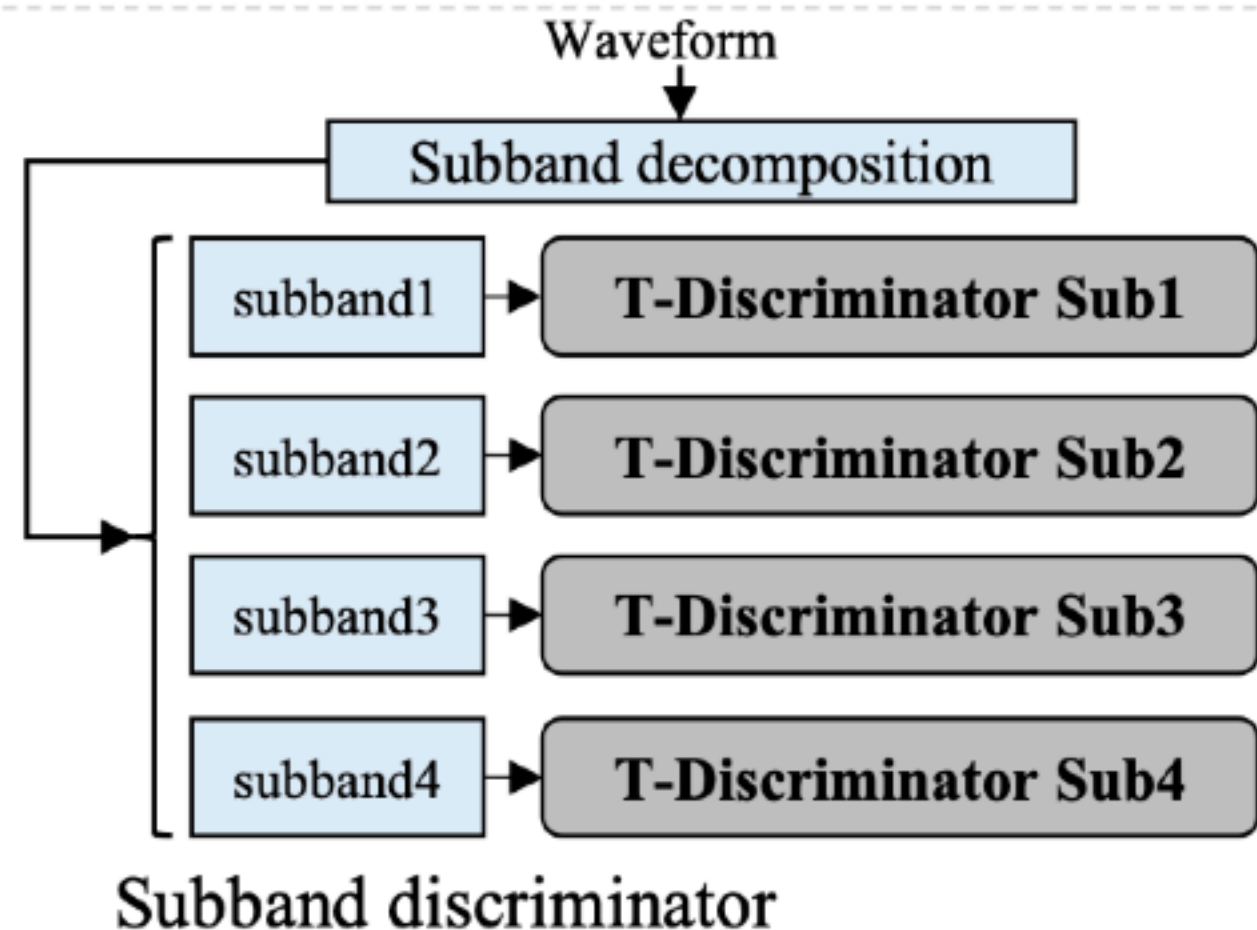
- Loss Function: $L_{syn} = L^T + L^F + \lambda_1 L^D$

Frequency Discriminator

F-Discriminator



Multi-resolution discriminator



Subband discriminator

Energy Loss

Segment Loss

Phase Loss

Time
domain

Loss functions

Mel Loss

**Multi
Resolution
STFT Loss**

**Spectral
Convergence
Loss**

Frequency
domain

Loss functions and discriminators



osseas



frequency domain

The loss function for generating includes the main loss

Loss Function:

, and discriminator losses

LIT

LT

LD

$$\boldsymbol{L}_{syn} = \boldsymbol{L}^T + \boldsymbol{L}^F + \lambda_1 \boldsymbol{L}^D$$

TFGAN Vocoder - Training - Time Domain Losses

k	1	2	3	4
frame-length	1	240	480	960
hop-length	1	120	240	480

Table.3 Window parameter for each k