

Voicexer

TFGAN Voice-Denier Training - Frequency Domain Loss



Losses

Function:

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



Frequency

Donmai

Losses:



$$L^F = \lambda_2 L^{mel} + \sum_k L_k^f$$



$$L_k^f(\hat{s}, s) = \lambda_3 L_k^{sc}(\hat{s}, s) + \lambda_4 L_k^{mag}(\hat{s}, s)$$

Table.4STFT parameter for each k

k	1	2	3	4	5	6	7
win-length	4096	2048	1024	512	256	128	64
hop-length	2048	1024	512	256	128	64	32
fft-size	8192	4096	2048	1024	512	256	128

Frequency

Training

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$$L^{mel}(\hat{s}, s) = \left\| \hat{S}_{mel} - S_{mel} \right\|_2$$

$$L^{sc}(\hat{s}, s) = \frac{\left\| |\hat{s}| - |s| \right\|_F}{\left\| |\hat{s}| \right\|_F}$$

$$L^{mag}(\hat{s}, s) = \left\| \log(|\hat{s}|) - \log(|s|) \right\|_1,$$

• Frequency



LOSSS

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

$$L^F = \lambda_2 L^{mel} + \sum_k L_k^f$$

$$L_k^f(\hat{s}, s) = \lambda_3 L_k^{sc}(\hat{s}, s) + \lambda_4 L_k^{mag}(\hat{s}, s)$$

Table. 4

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Function:

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Losses:

Frequency

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