Experiment details:

All trained with

-60 epoch -image size 128x128

-block size 32x32

-3 channel gray image

Loss details:

1.Distinct loss(Loss_60)

Count Horizontal and Vertical pair with distinct gray level(>0.5)

Loss = (Hcount+Vcount)/Total pair

2. Average 10 pixel Distinct loss(Loss_global_10)

Calculate 10 pixel value in the region that alongside the Horizontal or Vertical axis. Then calculate their average (H_average or V_average).

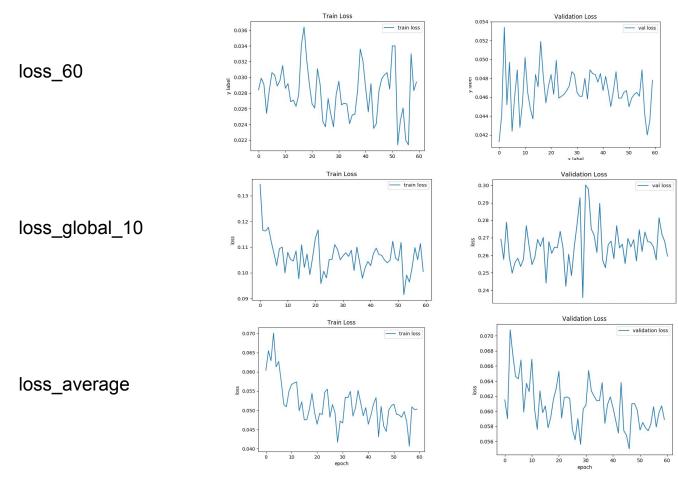
Loss = (H_average+V_average)/Number of edge

3.Average Distinct loss(Loss_average)

Calculate the absolute value of each pixel pair then calculate their average.

Loss = Abs_Sum/(Total pair*max pixel value)

Train and Validation Loss



Epoch 1 loss_60 Original image vs Encoded image

Original Image

Encoded Image



Encoded image at epoch 5,54,56

Epoch 5

Epoch 54

Epoch 56



Epoch 1 loss_global_10 Original image vs Encoded image

Original Image

Encoded Image



Encoded image at epoch 31,24,30

Epoch 31

Epoch 24

Epoch 30



Epoch 1 loss_average Original image vs Encoded image

Original Image

Encoded Image



Encoded image at epoch 3,29,47

Epoch 3

Epoch 29

Epoch 47

