Black and white photo colorization

Valiullina Chulpan

Pichugina Anastasia

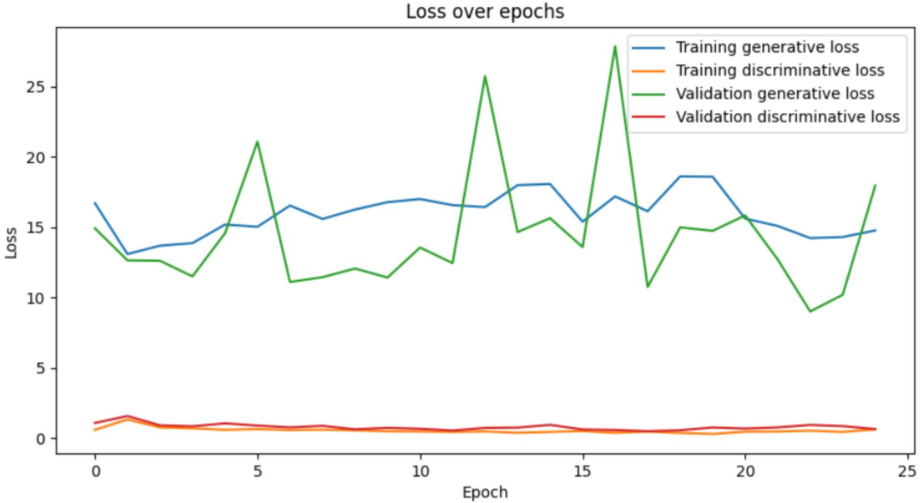
Khlebnov Saveliy

No diffusion, high resolution

CNN

GAN

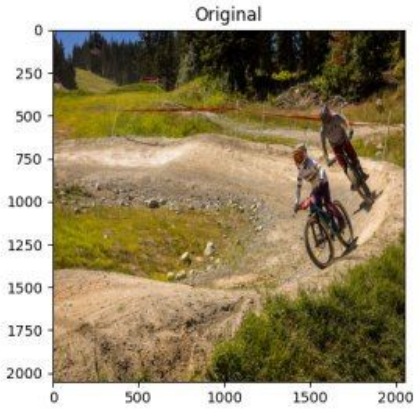
GAN →

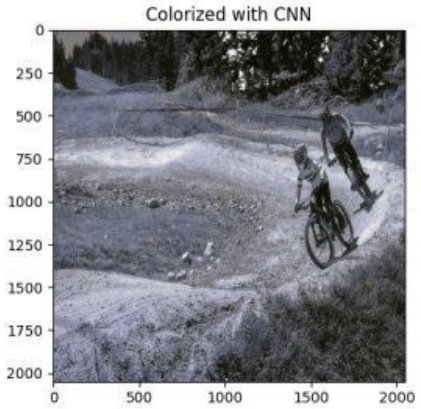

Loss over epochs
Training generative loss
Training discriminative loss
Validation generative loss
Validation discriminative loss
Loss
Epoch
0
5
10
15
20
25

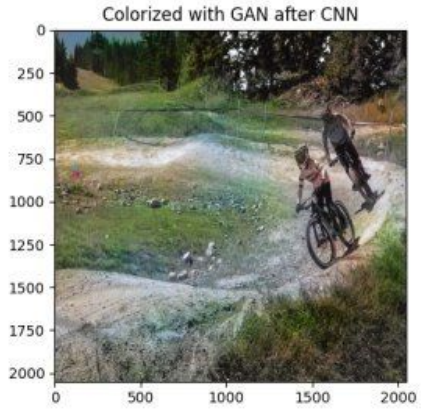
Training and Validation Loss over Epochs
Training Loss
Validation Loss
Loss
Epoch
0.0105
0.0100
0.0095
0.0090
0.0085
0
5
10
15
20
25
30

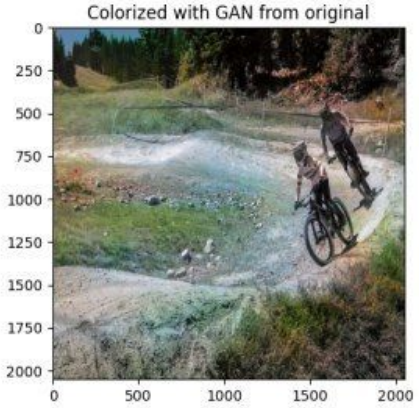
← CNN

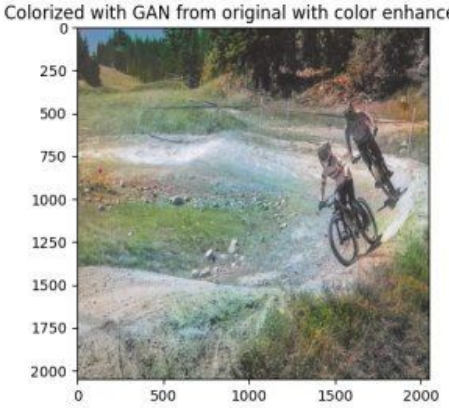
Running `load_gan_model()`.

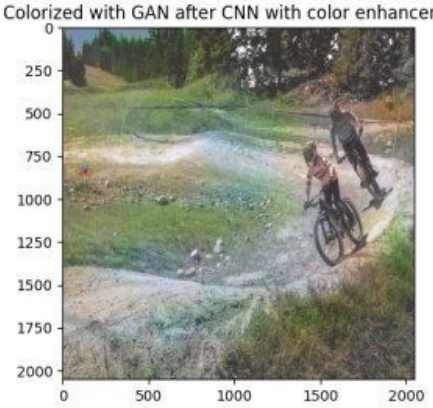












Gray images
Gray images
Gray images
Gray images
Gray images
Epoch 79
Epoch 79
Epoch 79
Epoch 79
Epoch 79
Ground truth
Ground truth
Ground truth
Ground truth
Ground truth

Gray images
Gray images
Gray images
Gray images
Gray images
Epoch 22
Epoch 22
Epoch 22
Epoch 22
Epoch 22
Ground truth
Ground truth
Ground truth
Ground truth
Ground truth

Input (Grayscale)
Truth
Model Output, epoch 27
0
100
200
300
400
500
600
700

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Upload an image

Drag and drop file here

Limit 200MB per file • PNG, JPG, JPEG

Browse files

mountains.jpg 480.3KB

Image uploaded successfully!

Adjust Brightness 1

1.00

0.50 2.00

Uploaded Image

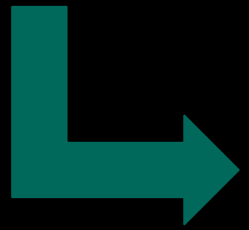
Colorized with CNN

Colorized with GAN

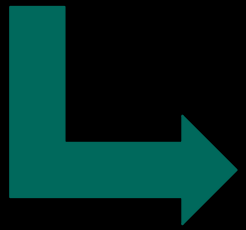
Colorize with CNN

Colorize with GAN

12:16.30



02:21.97



00:11.44

Time improvement

Link to the github