themis12@kaist.ac.kr / 010 2830 3651 20184448 Jo MinKi

1 Introduction

This model conduct the interpolation task with the video sequeance. Similarly to the pix2pix, every input data has the assigned target data. Basically this model make a same size of image which has high color range. The detail about the implementation are written in the README.md and in the python files.

2 Environment

- L1 loss for the cost
- Adam optimizer (epsilon = 0.002)
- Learning rate: 0.0001

3 Result

Nesult							
step:	00450	Cost:	0.030	PSINK:	34.0	22TM:	0.8∠5
Step:	00500	Cost:	0.018	PSNR:	31.7	SSIM:	0.947
Step:	00550	Cost:	0.021	PSNR:	33.5	SSIM:	0.918
Step:	00600	Cost:	0.024	PSNR:	31.1	SSIM:	0.943
Step:	00650	Cost:	0.036	PSNR:	31.2	SSIM:	0.866
Step:	00700	Cost:	0.012	PSNR:	35.6	SSIM:	0.975
Step:	00750	Cost:	0.009	PSNR:	42.6	SSIM:	0.990
Step:	00800	Cost:	0.019	PSNR:	35.0	SSIM:	0.982
Step:	00850	Cost:	0.014	PSNR:	34.8	SSIM:	0.971
Step:	00900	Cost:	0.032	PSNR:	33.8	SSIM:	0.936
Step:	00950	Cost:	0.027	PSNR:	29.0	SSIM:	0.935
Step:	01000	Cost:	0.039	PSNR:	27.9	SSIM:	0.942

Average PSNR = 32.3

Test example First & Third is input, middle one is the output



The produced image tends to show the luminance around the edge, which seems as a mixture of the former and later image. However, even though the edge part not recovered perfectly, the result image shows high PSNR and SSIM because most of the object are almost similar with the former & later image.

At the following example, first one is one of the input image and last one is the target image, and middle one is the output image that produced by the network.

