Deep generative model/Advanced computer vision Quiz 3

Please submit answers no later than 5/26 5:00 PM.

You can use either English or Korean for answers.

- * 필수항목
- 1. Student ID *
- 2. Student Name *
- 3. [2 points] What is the difference between pix2pixHD algorithm compared to the pix2pix? (Please describe more than 2 distinct differences)
 - 1) Coarse-to-fine generator
 - @ Feature matching loss
 - 3 Multi-scale discriminator
 - @ Boundary map input
- 4. [2 points] What is the checkerboard artifacts? and instead of Conv2DTranspose, which layers could be used to constitute the GAN decoder, to relieve the checkerboard artifacts?

uneven overlap happen at de-conv. op.

Use Upsampling +2D Conv instead of Transposed Conkr. op.

5.	[1 point] Please select the sentence that correctly describes the perceptual loss.
	한 개의 타원형만 표시합니다.
	It could be used only when the generator has the hierarchical structure. We need to involve an additional pre-trained network to calculate the loss. Without the loss, generative adversarial network could not be trained. It is calculated based on the brightness difference between the original and generated images.
6.	[2 points] What do you think is the key contribution of StarGAN, compared to the pix2pix?
	Multi-domain translatin.
ent :	
	ational and to the golden to
7.	[2 points] What do you think is the merit of having the attention mechanism in image translation method as in the paper linked: [https://openaccess.thecvf.com/content_ECCV_2018/papers/Gang_Zhang_Generative_Adversarial_Network_ECCV_2018_paper.pdf]
	Prevent artifacts in unmanipulated regions.
	go want of to aggin golden arrows

8. [1 point] Please describe any 1 interesting application using GAN or adversarial loss that you learned during the class or while reading papers.

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