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## 1. 1

### 1.1. 1.1

SIGGRAPH 2017 : Globally and Locally Consistent Image Completion (Waseda University) Satoshi Iizuka

GAN

DCGAN GL GAN

GL 12 ( ) encoding 16 4 decoding (Global Discriminator) (Local Discriminator) 4

##1.2 ###

RGB binary

encoding 2X2 stride convolution dilated

convolution deconvolution layer ReLU Sigmoid 0 1

4

Multi-Scale Context Aggregation by Dilated Convolutions dilated

convolutional layer “ ”

tensorflow atrous\_conv2d dilated convolution ### 256X256 RGB

layer 2X2 stride 1024 2048 sigmoid

### “ :

DCGAN ” GAN MSE(Mean Squared Error) C(x) x

MSE GAN loss function

“As the optimization consists of jointly minimizing and maximizing conflicting objectives, it is not very stable.”

D ( Tc ) completion network C (Tc~Tc+Td ) discriminator

1.2.

2.

2.1.

	GAN		DCGAN		Discriminator Generator		GPU	64X64
MSE	GAN	MSE	discriminator generator		discriminator			8
	300	CPU						
##	CPU	90	64	DCGAN	encoding	decoding		gener
		128	encoding	DCGAN	MSE GAN		10	
	64X64	encoding	128		16X16			

3.

GAN WGAN GAN