



AU332 Quiz18

* 基本信息:

姓名:

学号:

*1. Aim of the generator G is 【多选题】

- ☒ Maximize classification error for discriminator.
Minimize classification error for discriminator.
- ☒ Minimize $\log(1-D(G(z)))$.
- ☒ Maximize $\log(D(G(z)))$.

*2. Training GAN models can be considered as a Minimax 2 players game?

- ☒ Yes
☐ No

*3. Which of the following are advantages of GAN models? 【多选题】

- ☒ Conditional Generative model can be created by adding an input to both G and D.
Sampling requires Markov chain.
- ☒ Semi-supervised learning, when limited data available for classifiers.
- ☒ Training can be done easily by doing back propagation.

*4. Consider a Generative Adversarial Network which successfully produces images of apples. Which of the following propositions is false? 【多选题】

- ☐ The generator aims to learn the distribution of apple images.
- ☒ The discriminator can be used to classify images as apple vs. non-apple.
After training the GAN, the discriminator loss eventually reaches a constant value.
- ☐ The generator can produce unseen images of apples.

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