SR\_benchmark

1.AffGAN - Amortised MAP Inference for Image Super-Resolution

2. Real-Time Video Super-Resolution with Spatio-Temporal Networks and Motion Compensation

early fusion, slow fusion and 3D convolutions是三种Spatio-temporal model

joint motion compensation

GAN\_zoo

3. Variational autoencoders (VAEs)

4. AEGAN - Learning Inverse Mapping by Autoencoder based GANs

可以用于SR、视频，样本质量很差？需要很多label information

5. AM-GAN - GAN with Labeled Data by Activation Maximization

多分类是指多任务（桌子、猫）还是P(真)分为多个范围（0-0.3,0.3-0.7,0.7-1）

the current GAN model with labeled data still results in undesirable properties due to the overlay of the gradients from multiple classes

6. Bayesian GAN - Deep and Hierarchical Implicit Models

2个模型：hierarchical implicit models、deep implicit models

merging the idea of implicit densities with （hierarchical Bayesian modeling and deep neural networks）

第二次问题：

1. BS-GAN - Boundary-Seeking Generative Adversarial Networks

可以把GAN应用于离散变量，那么它的应用背景是什么，为什么需要离散

1. CatGAN - Unsupervised and Semi-supervised Learning with Categorical Generative Adversarial Networks

结合之前的另一篇分类GAN？（我有点忘了当初的问题是什么了……）

1. DR-GAN - Disentangled Representation Learning GAN for Pose-Invariant Face Recognition和FF-GAN - Towards Large-Pose Face Frontalization in the Wild

不同方向人脸的识别和合成，这个有代码吗？（我在GitHub上简单搜了一下，没找到这两篇的代码，但是FFGAN的论文里附了官方网站<http://cvlab.cse.msu.edu/category/research.html>，里面有该实验室的相关研究和部分研究的代码）

1. EBGAN - Energy-based Generative Adversarial Network

Energy没有理解是什么概念

1. b-GAN - Unified Framework of Generative Adversarial Networks

density ratio 是什么？