Ensemble of GAN

Observation

陳柏文同學提供 實驗結果

Yaxing Wang, Lichao Zhang, Joost van de Weijer, "Ensembles of Generative Adversarial Networks", NIPS workshop, 2016

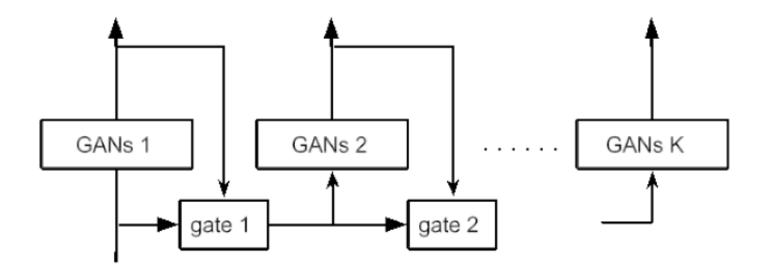






Ensemble of GAN

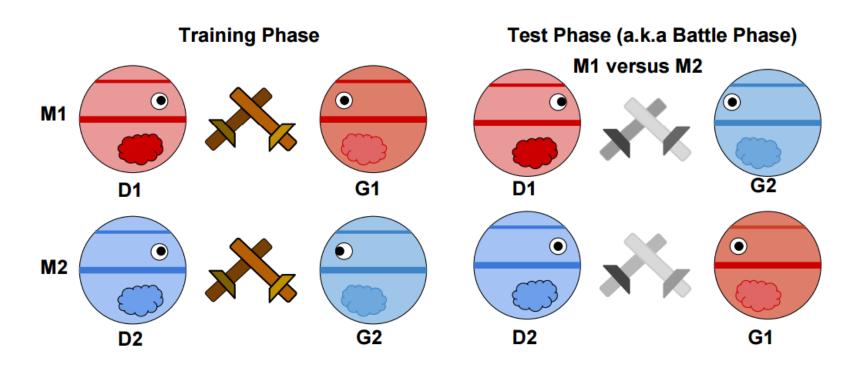
- Standard ensemble of GAN
- Self-ensemble of GAN
- Cascade of GAN



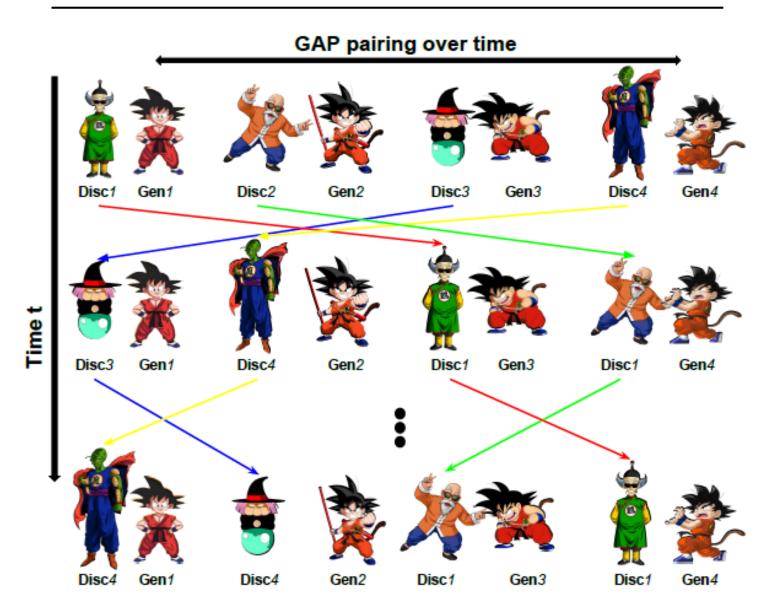
Generative Adversarial Parallelization https://

https://arxiv.org/pdf/1602.05110.pdf

 Idea from previous work: using a discriminator to evaluate the generator

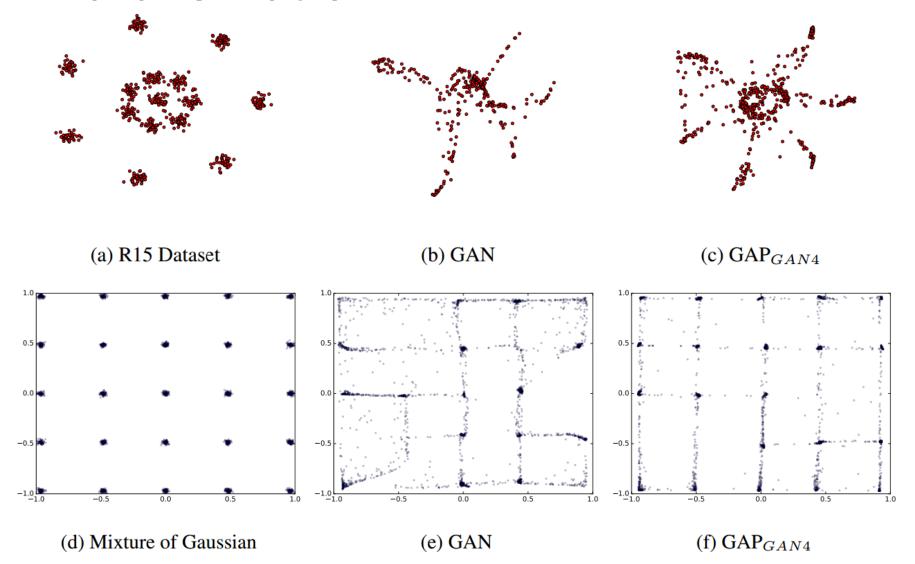


Generative Adversarial Parallelization



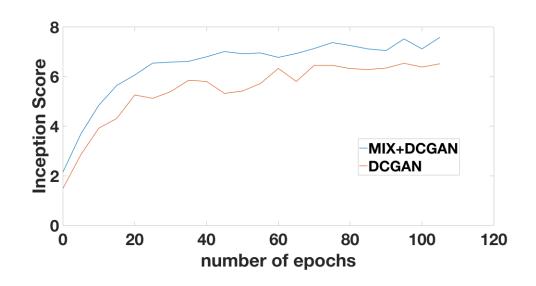
This figure is from the original paper: https://arxiv.org/abs/1612.04021

Generative Adversarial Parallelization



MIX + GAN

• Results



http://www.offconvex.org/2017/03/30/GANs2/

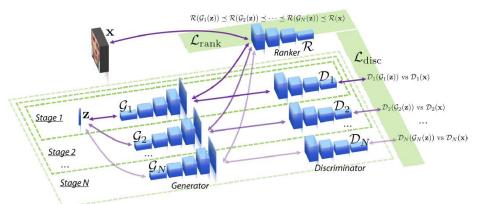




To learn more ...

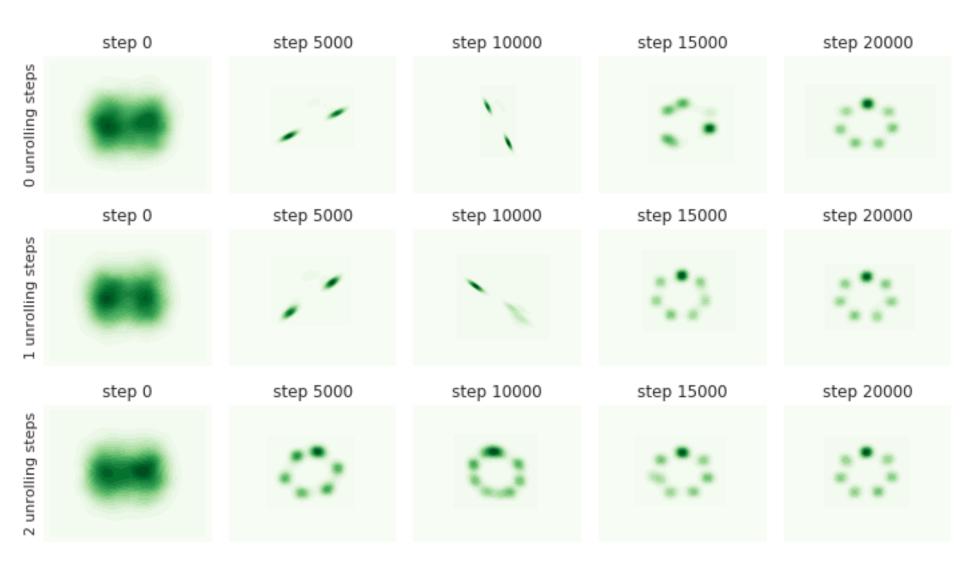
MAGAN: Margin Adaptation for Generative Adversarial

Networks



- Multi-Agent Diverse Generative Adversarial Networks
- Message Passing Multi-Agent GANs
- AdaGAN: Boosting Generative Models
- Unrolled Generative Adversarial Networks

Unroll GAN – Experimental Results



Code: https://github.com/poolio/unrolled_gan/blob/master/Unrolled%20GAN%20demo.ipynb