Contents

1   Computer Vision

1.1   Image-to-Image Translation

CycleGAN: Unpaired Image-to-Image Translation using   Cycle-Consistent Adversarial Networks citep:zhu2017CycleGAN. This is one of my favorite papers. The authors extending some of the classic work done in Pix2Pix citep:isola2017pix2pix to *unpaired* sets of images. At the core of the Cycle-GAN procedure are two Generative Adversarial Networks that learn to map images between two domains. The key addition that makes this process work is an additional loss term, which enforces that images passed through both generators should be as close as possible to the input image. This has practical motivation: if we translate one way and then translate back, we should expect the input to be unchanged. The results are impressive and eye catching. This work inspired a paper of mine: GeneSIS-RT citep:stein2018genesisrt.

References