



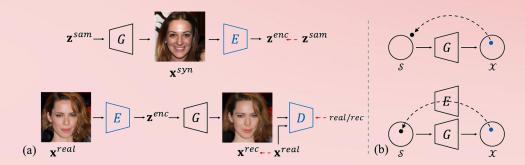
1.Model/Mô Hình

2.Pipeline/Hệ Thống

3.APPs/Ung Dung

4.DEMO





Choice of Latent Space

Reconstructs the input image Semantically meaningful for editing

Semantic Diffusion, Real Image Editing

APPs

In-Domain GAN Inversion



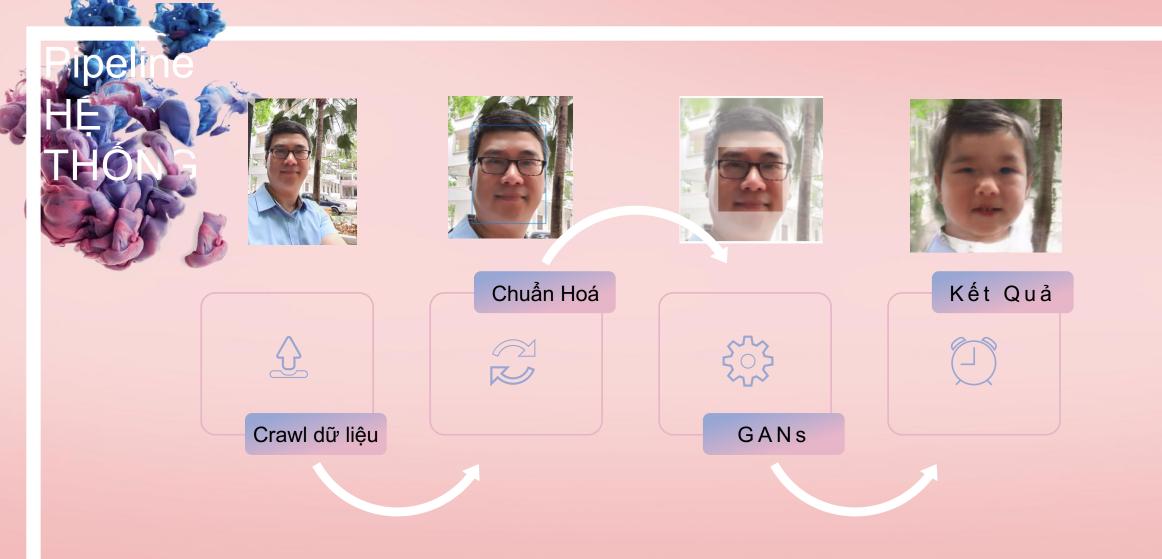
Domain-Guided Encoder

The output of the encoder is fed into the generator to reconstruct the input image such that the objective function comes from the image space instead of latent space

Domain-Regularized Optimization

- + the domain-guided encoder is trained with real images .
- + employ the discriminator to compete with the encoder.

Paper: In-Domain GAN Inversion for Real Image Editing, Xiaomi Al Lab, 16 Jul 2020



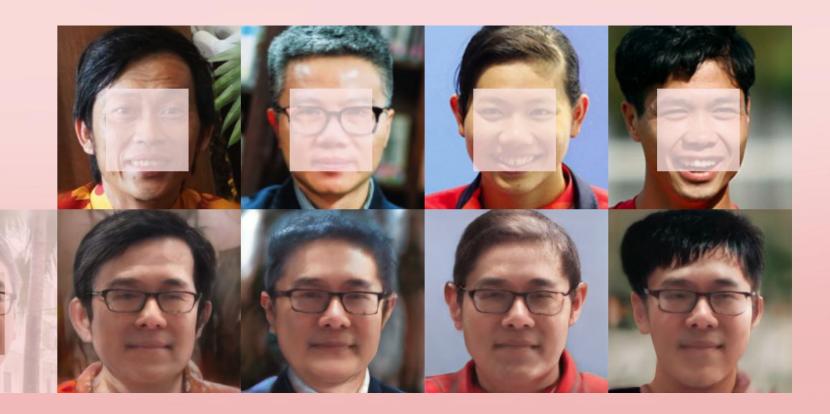
Pretrained Deep models: MTCNN, GAN-InDomain, Aging Gan, StyleGan, DCGANs





Semantic Diffusion (Lan Toả Nội Dung)

Diffuse the target face to the context and makes them compatible







Real Image Editing (Sửa)

Age Pose

Eyes Gender



Optimized Loss (Tối Ưu)

Semantic manipulation with respect to various facial attributes.





























Interpolation (Nội Suy)

+ Linearly interpolating two inverted codes



