OPTIMIZING LATENT SPACE DIRECTIONS FOR GAN-BASED LOCAL IMAGE EDITING

Ehsan Pajouheshgar Tong Zhang Sabine Süsstrunk







Semantic Image Editing



Original

EP

Eyebrows

Mouth





Generative Adversarial Networks (GANs)



StyleGAN2 Trained of FFHQ

EPFI



Generative Adversarial Networks (GANs)



StyleGAN2 Trained of LSUN Cars





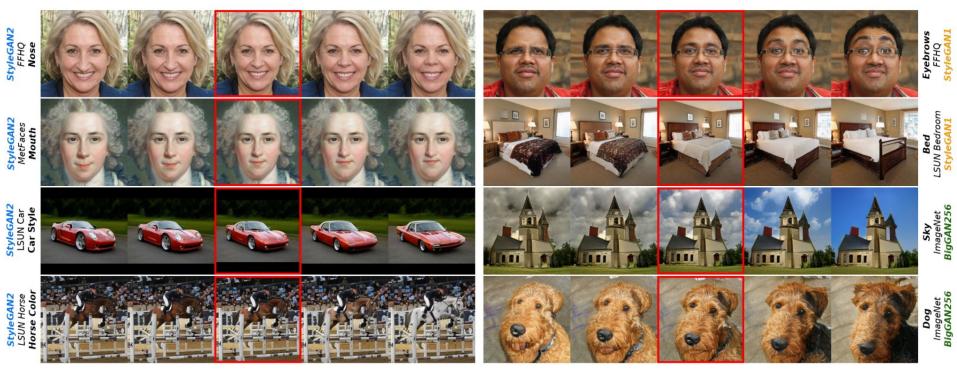
Generative Adversarial Networks (GANs)





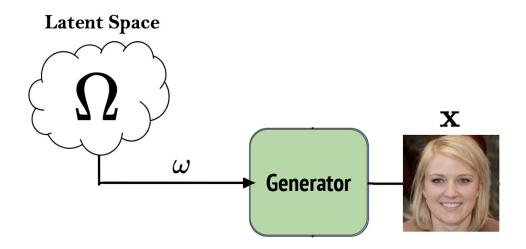
BigGAN trained on ImageNet





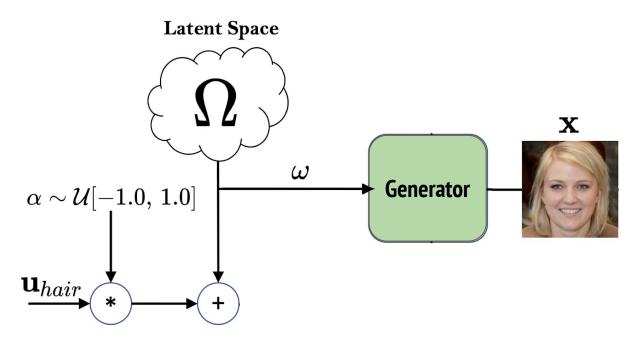
EPFI





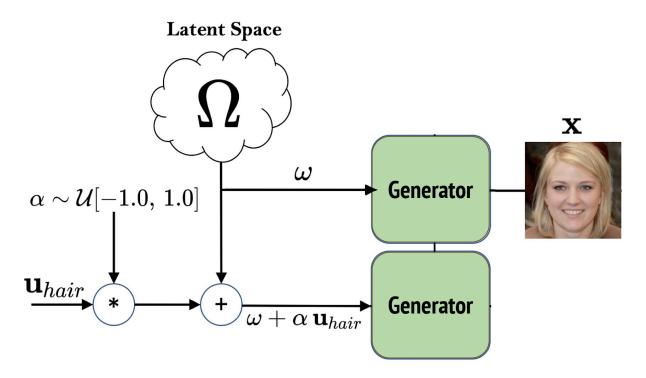




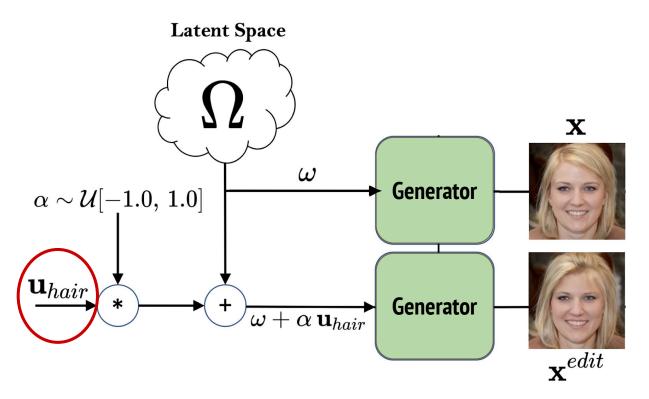






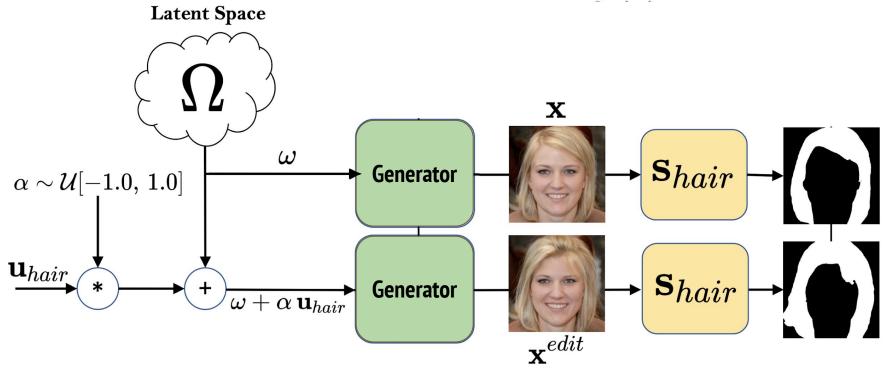






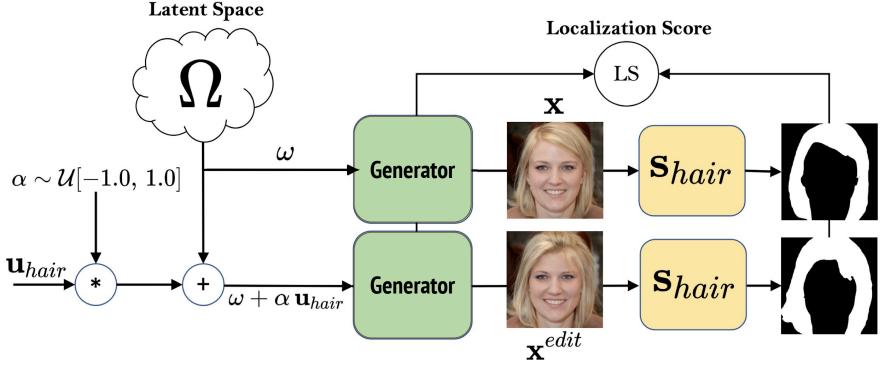






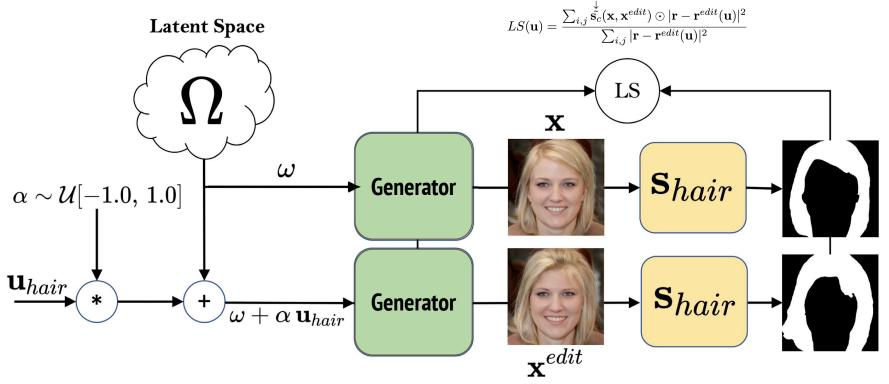




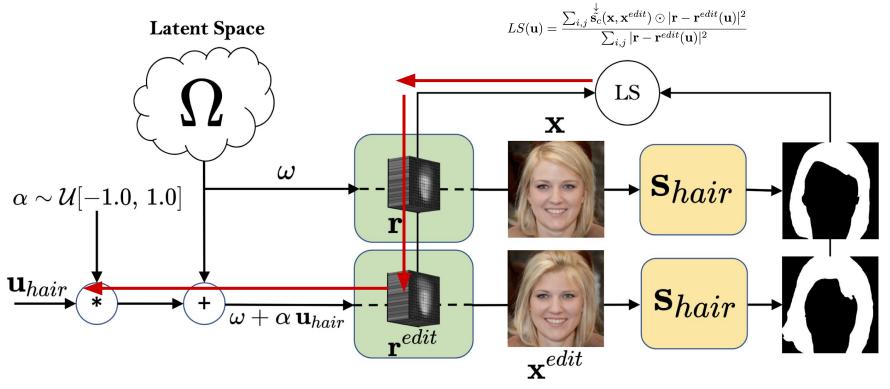






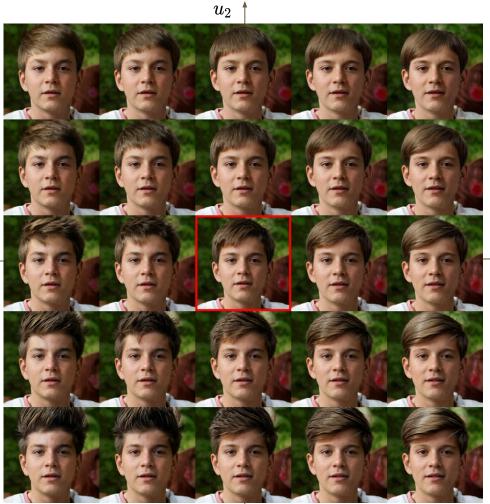






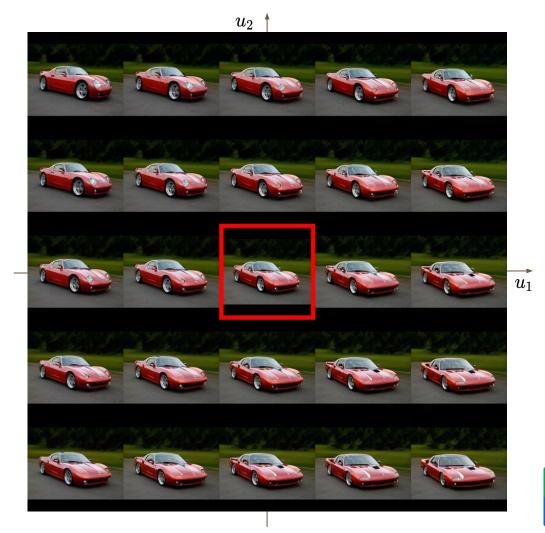






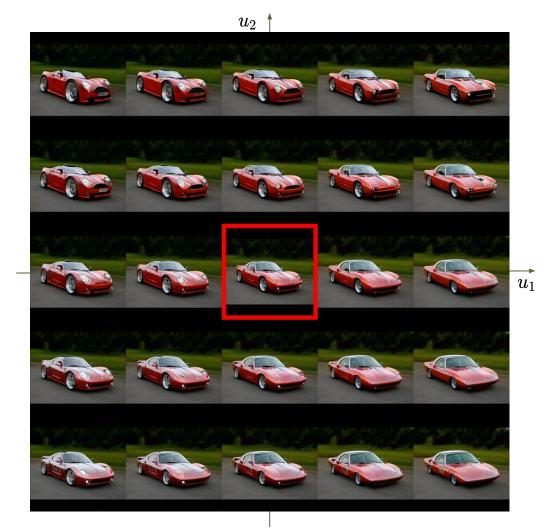
≁ u_1





 $(4^2 - 8^2)$

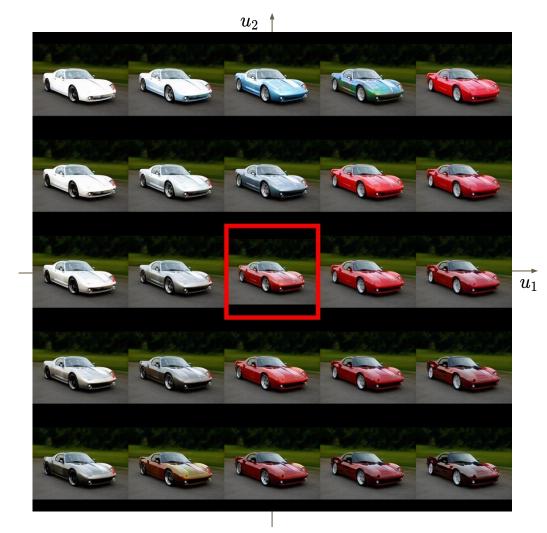
EPFL



 $\left(16^2 - 32^2\right)$



10



 $(64^2 - 128^2)$

EPFL

11



EPF







Original

Inverted

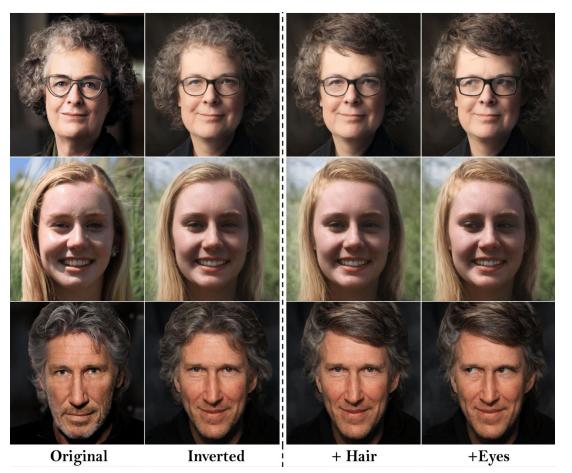






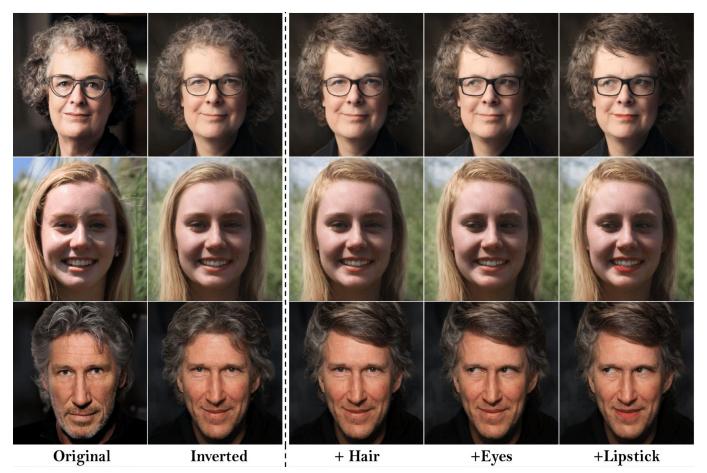


EPFI





EPF





Thank you for watching!





