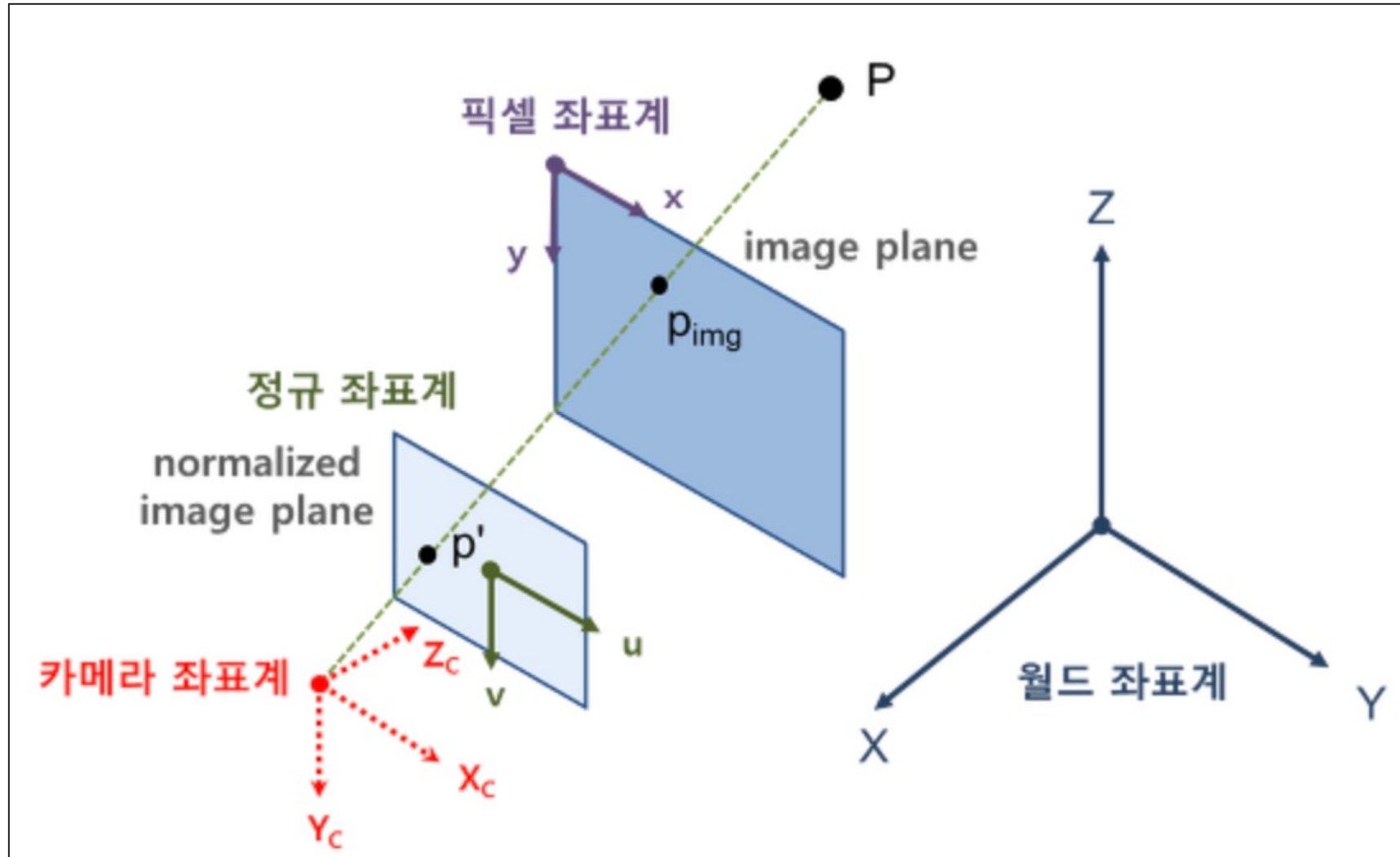


2D to 3D

1. 좌표계를 이용한 변환



2. AlphaPose 2D 좌표값 변환

1

알파포즈를 통해 2D 좌표값 추출

2

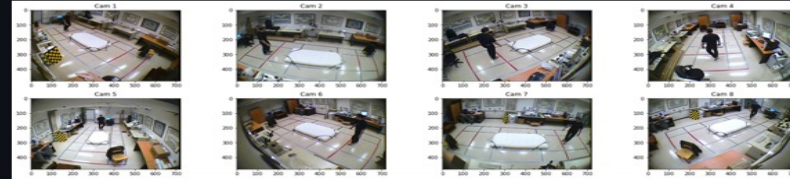
2D 좌표값을 Human 3.6M 2D 좌표 값에 매핑

3

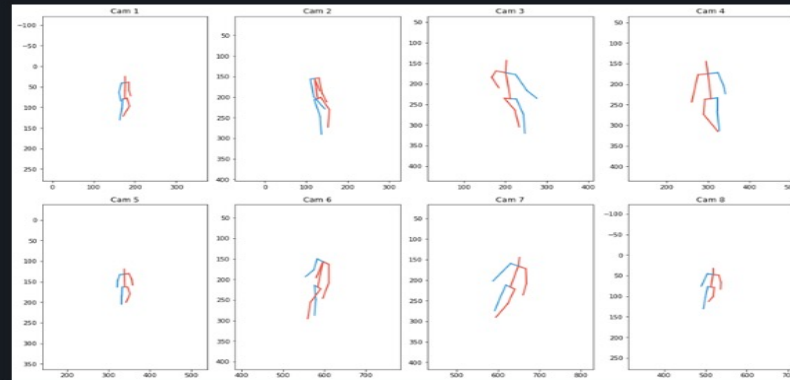
Human 3.6M 3D 좌표 값으로 변환

2. AlphaPose 2D 좌표값 변환

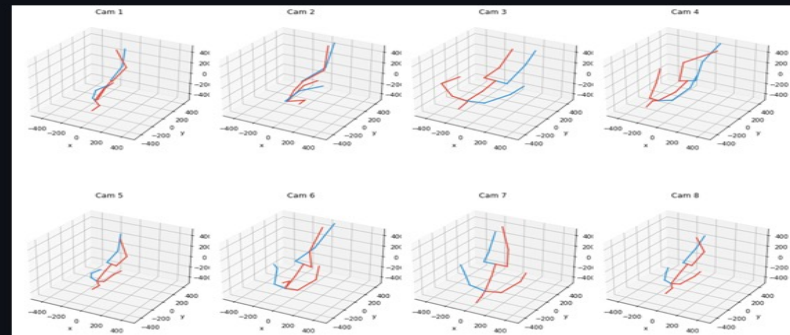
RGB Image



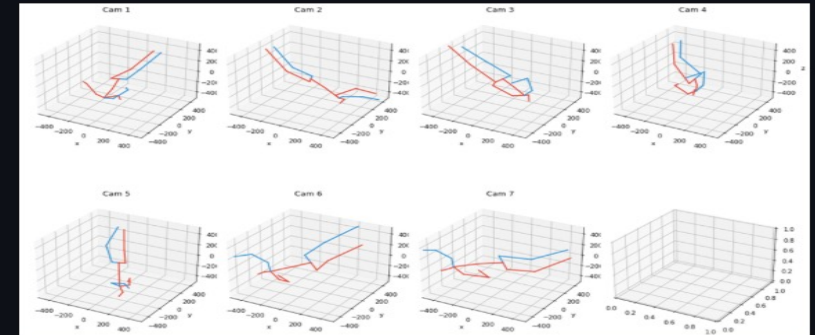
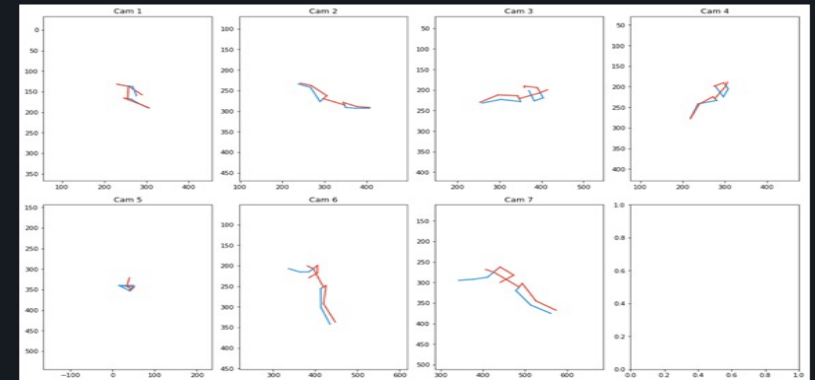
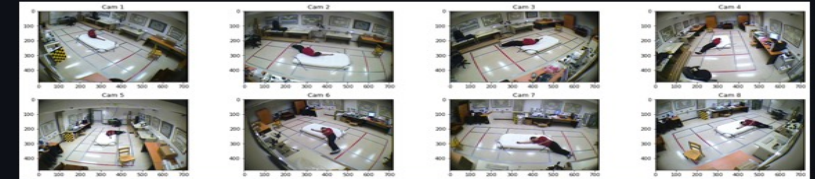
2D Pose Estimation



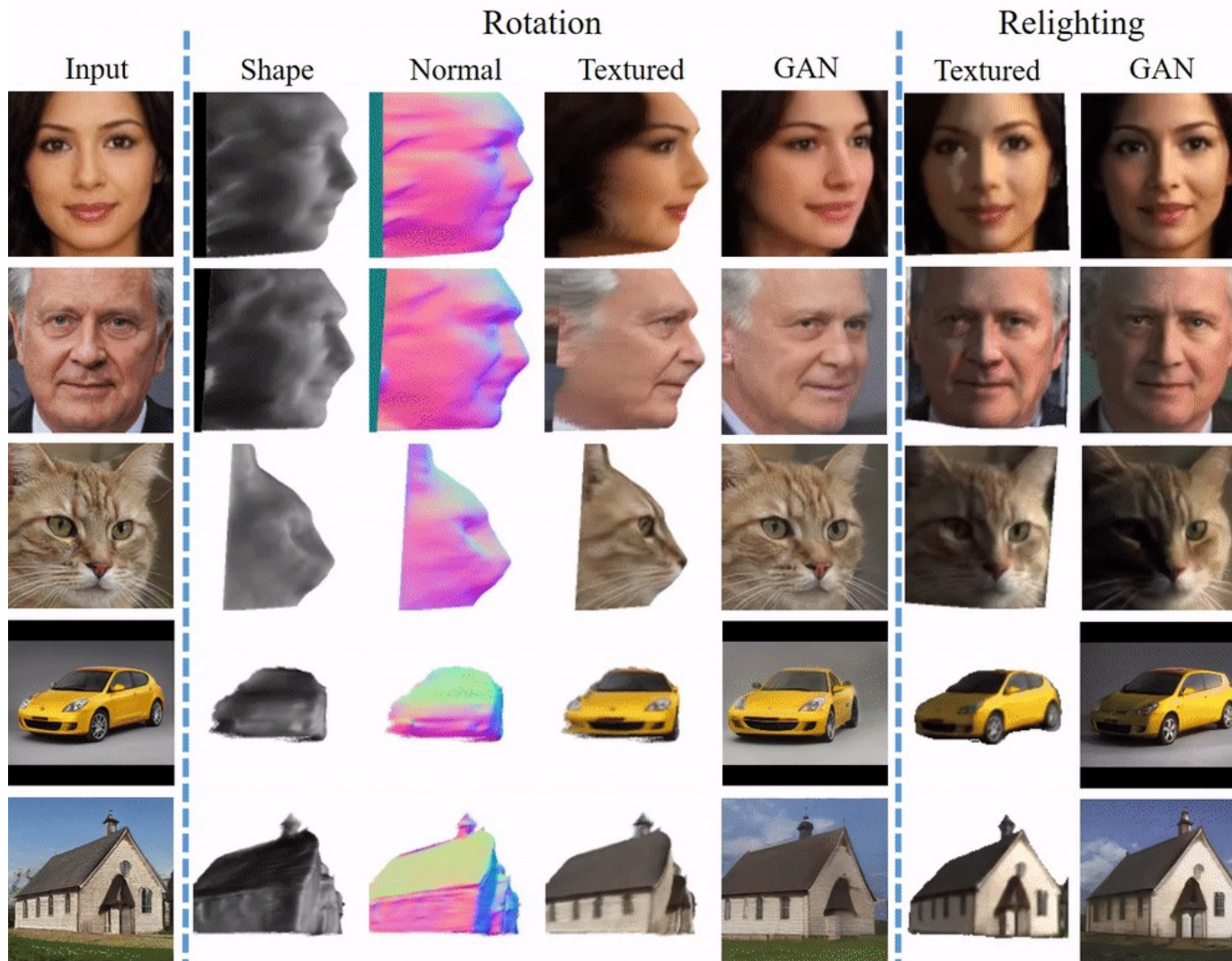
3D Inference Result



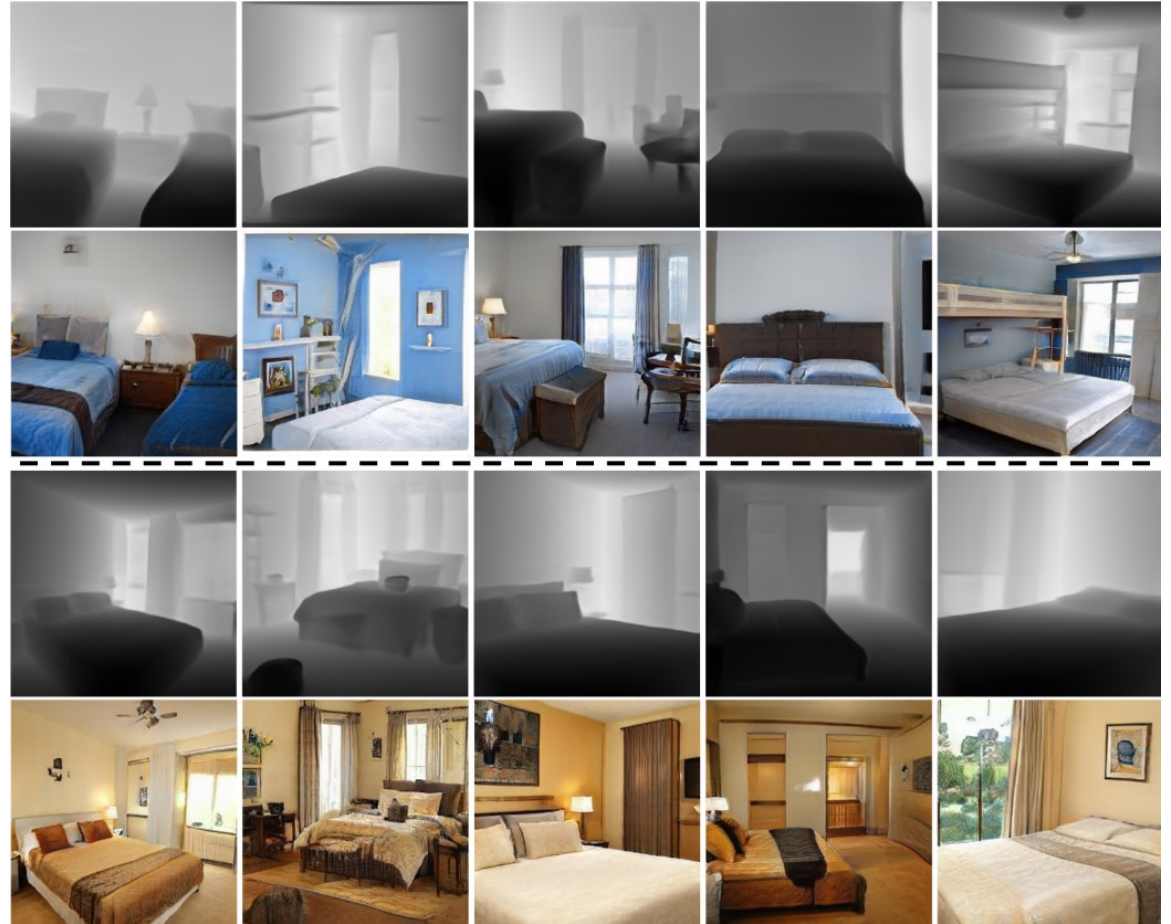
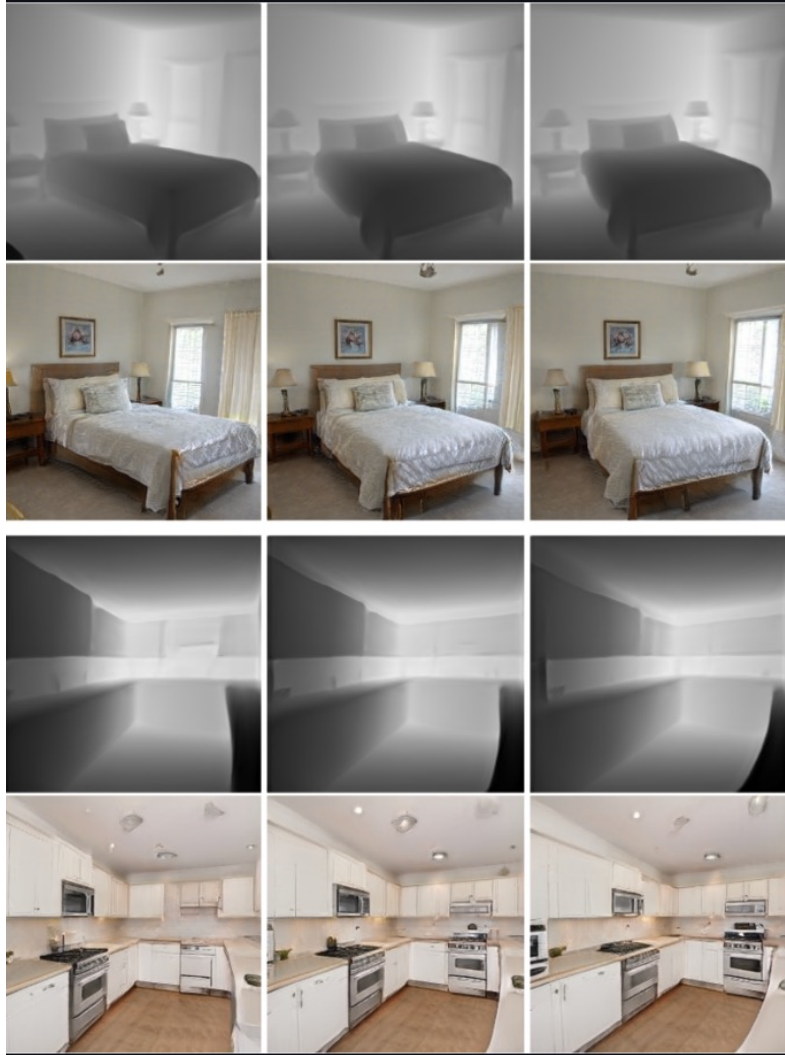
Test 2 - Falling











3. GAN 모델 – GAN2Shape
















3. GAN 모델 - DepthGAN



3. GAN 모델

 car.yml
 cat.yml
 cat_pretrain.yml
 celeba.yml
 celeba_pretrain.yml
 church.yml
 synface.yml
 synface_pretrain.yml

zs Zifan SHI > Shared > DepthGAN

 Name ▾	Modified ▾ ▾	Modified By ▾	File size ▾	Sharing
 lsun_bedroom128.pth	 July 20, 2022	Zifan SHI	1.16 GB	 Shared
 lsun_bedroom256.pth	 July 20, 2022	Zifan SHI	1.17 GB	 Shared
 lsun_kitchen128.pth	 July 20, 2022	Zifan SHI	1.16 GB	 Shared
 lsun_kitchen256.pth	 July 20, 2022	Zifan SHI	1.17 GB	 Shared

4. DINO v2



- Demo에서 제공한 깊이 값 추출을 Git hub에서 제공하지 않음
- 깊이 값을 얻기 위한 훈련이 필요해 보임

결론

1

움직임을 제한하고 좌표계 변환

2

GAN 모델 훈련

3

DINOv2 모델 훈련