# Train Model 종류 변경하여 비교해보기

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## **Contents**

1 Trained Model

■ Trained Model 종류

■ 입력 이미지

2 결과 분석

■ 결과 분석

■ 결과 비교

3



### Trained Model 종류

- Trained Model 종류
- 입력 이미지

1 Trained Model 종류

Panos2d3d.pth

st3d.pth

### 1 Network <del>종류</del>와 기본 설정 - 입력 이미지







Pano\_01.png

Pano\_07.png

Pano\_13.png





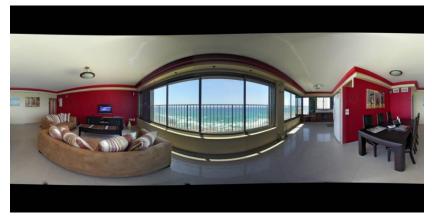


Pano\_15.png

Pano\_18.png

Pano\_20.png

### 1 Network <del>종류</del>와 기본 설정 - 입력 이미지







Pano\_08.png

Pano\_21.png

Pano\_22.png



Pano\_23.png



Pano\_24.png



### 2 결과 분석

- 결과 분석
- 결과 비교

#### 2 결과 분석 - 결과 분석

■ 확실히 panos2d3d.pth보다 st3d.pth가 훨씬 성능이 좋았다.

#### **을 왤까..?**

Panos2d3d 는 300epoch로 trained된 반면 st3d는 50epoch로 trained 되었는데도 st3d가 좋음.

#### ☺️ 내가 생각하는 이유

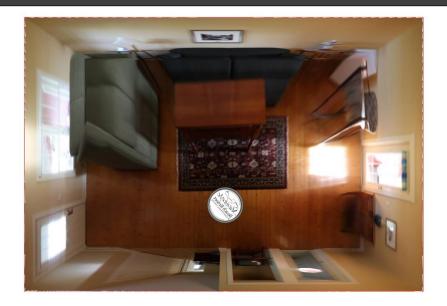
- ① 검증 세트에서 Loss function에 따라 50th epoch를 선택
- ② 원래 가구와 빛의 세팅을 가진 이미지를 트레이닝 시켜서.. > 그렇담 panos2d3d는 이렇게 트레이닝 시키지 않은건가?

#### retrained Models

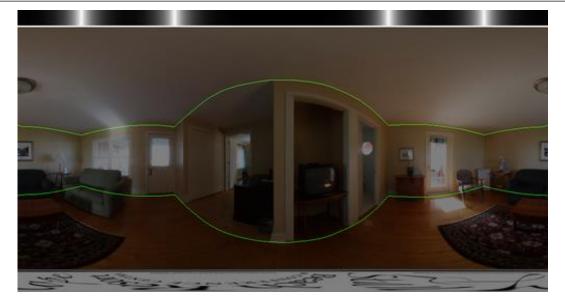
- resnet50\_rnn\_\_panos2d3d.pth
  - Trained on PanoContext/Stanford2d3d 817 pano images.
  - Trained for 300 epoch
- resnet50\_rnn\_\_st3d.pth
  - o Trained on Structured3D 18362 pano images with setting of original furniture and lighting.
  - o Trained for 50 epoch.
  - o Select 50th epoch according to loss function on validation set.

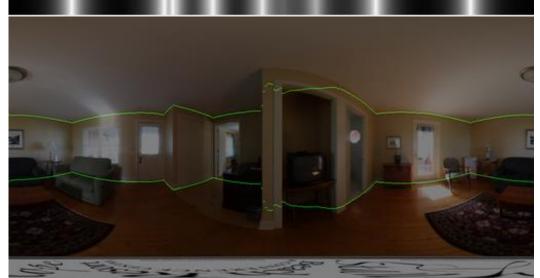
Panos2d3d.pth

St3d.pth







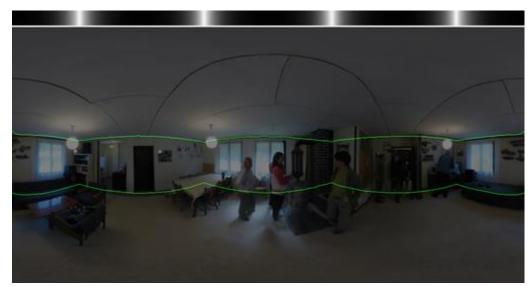


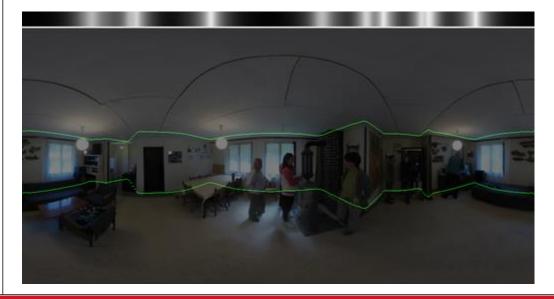
Panos2d3d.pth

St3d.pth



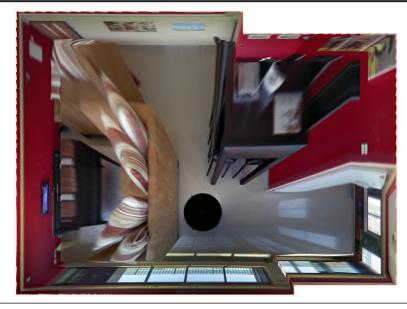




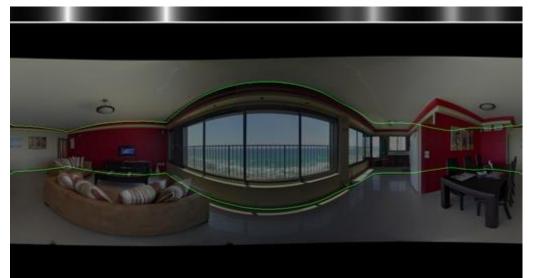


Panos2d3d.pth

St3d.pth





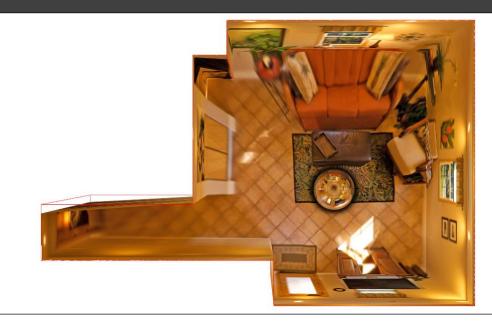


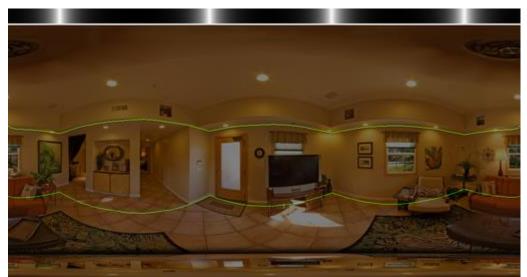


Panos2d3d.pth

St3d.pth





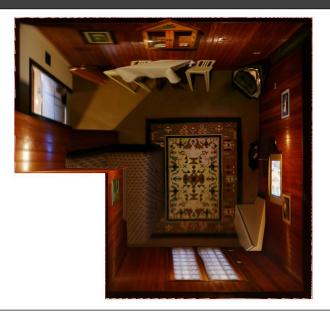




Panos2d3d.pth

St3d.pth







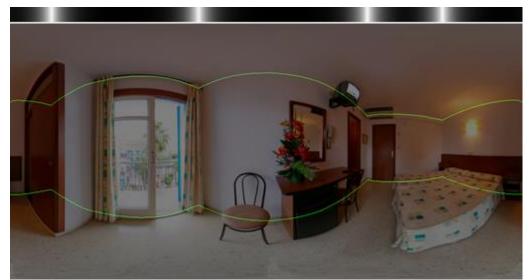


Panos2d3d.pth

St3d.pth









Panos2d3d.pth

St3d.pth





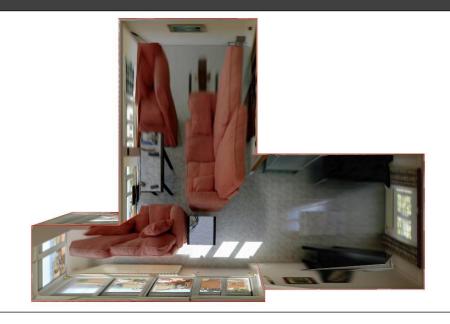


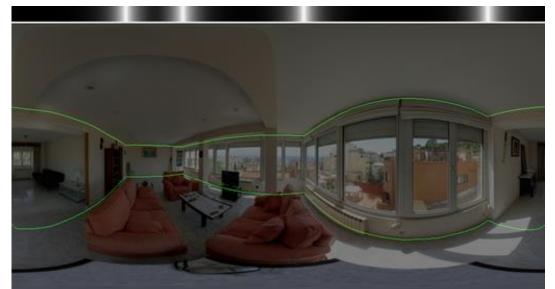


Panos2d3d.pth

St3d.pth



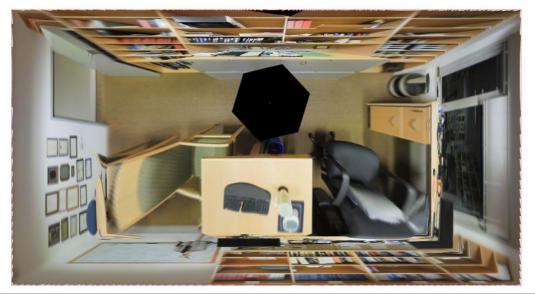






Panos2d3d.pth

St3d.pth



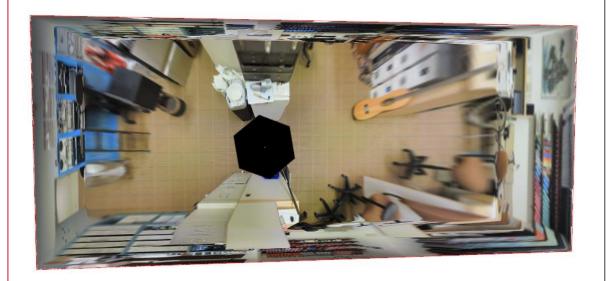


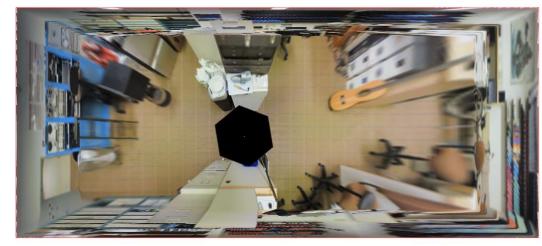




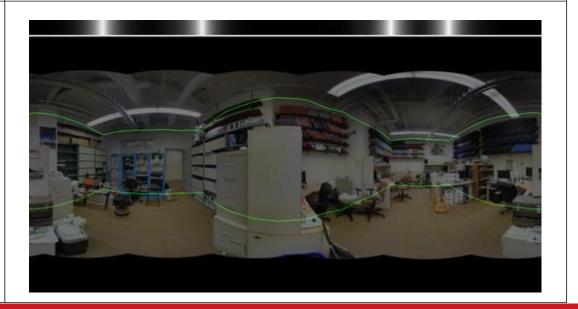
Panos2d3d.pth

St3d.pth





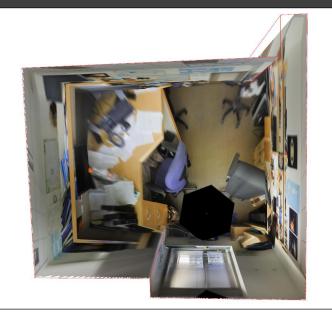




Panos2d3d.pth

St3d.pth



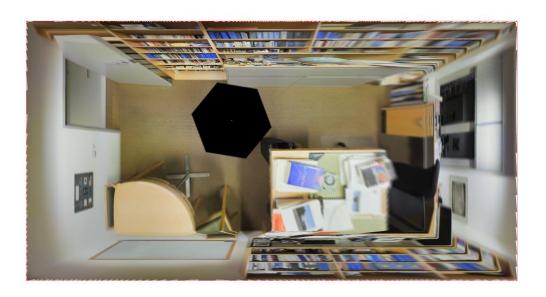


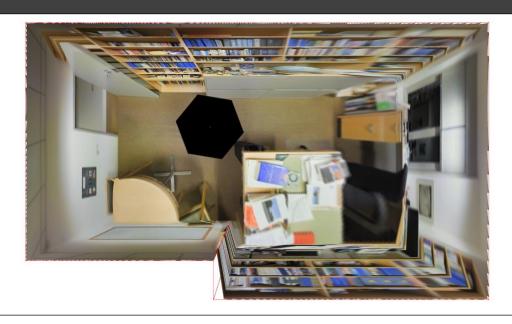




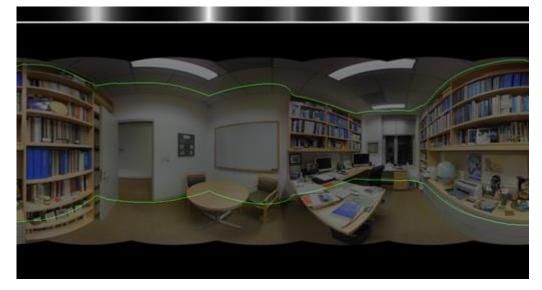
Panos2d3d.pth

St3d.pth









## **THANK YOU**

The End