

Đồ án #1 - VITON-HD

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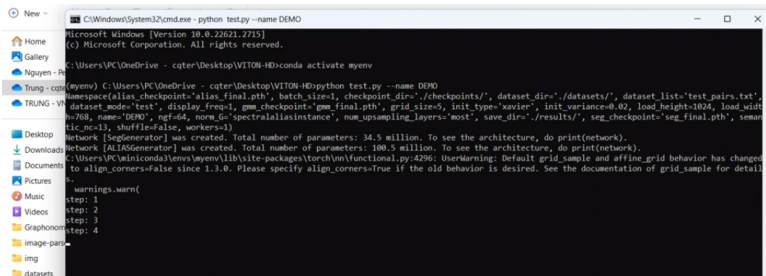
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TPHCM, tháng 12 năm 2023

- 1 Mở đầu
- 2 VITON-HD
- 3 Segmentation Generator
- 4 Geometric Matching Module
- 5 ALignment-Aware Segment (ALIAS) Generator

1. Mở đầu

- Trong bài thuyết trình này, ta sẽ tìm hiểu về mô hình VITON-HD và các pre-trained model

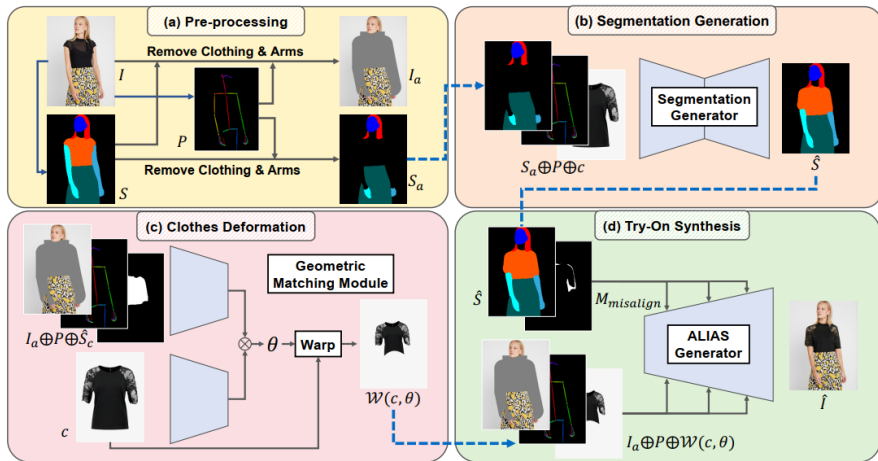


```
C:\Windows\System32\cmd.exe - python test.py --name DEMO
Microsoft Windows [Version 10.0.22621.2715]
(c) Microsoft Corporation. All rights reserved.

C:\Users\PC\OneDrive - cqtter\Desktop\VITON-HD>conda activate myenv
(myenv) C:\Users\PC\OneDrive - cqtter\Desktop\VITON-HD>python test.py --name DEMO
Namespace(alias_checkpoint='alias_final.pth', batch_size=1, checkpoint_dir='./checkpoints/', dataset_dir='./datasets/', dataset_list='test_pairs.txt',
dataset_mode='test', display_freq=1, gmm_checkpoint='gmm_final.pth', grid_size=5, init_type='xavier', init_variance=0.02, load_height=1024, load_width=
768, name='DEMO', ngf=64, norm_G='spectralaliasinstance', num_upsampling_layers='most', save_dir='./results/', seg_checkpoint='seg_final.pth', seman
tic_nc=13, shuffle=False, workers=1)
Network [SegGenerator] was created. Total number of parameters: 34.5 million. To see the architecture, do print(network).
Network [AliasGenerator] was created. Total number of parameters: 100.5 million. To see the architecture, do print(network).
C:\Users\PC\miniconda3\envs\myenv\lib\site-packages\torch\nn\functional.py:4296: UserWarning: Default grid_sample and affine_grid behavior has changed
to align_corners=False since 1.3.0. Please specify align_corners=True if the old behavior is desired. See the documentation of grid_sample for detail
s.
  warnings.warn(
step: 1
step: 2
step: 3
step: 4
```

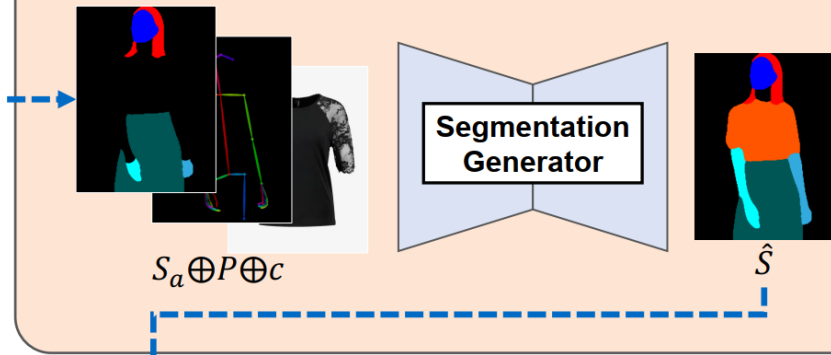
.....Generate virtual try-on images.....

2. VITON-HD

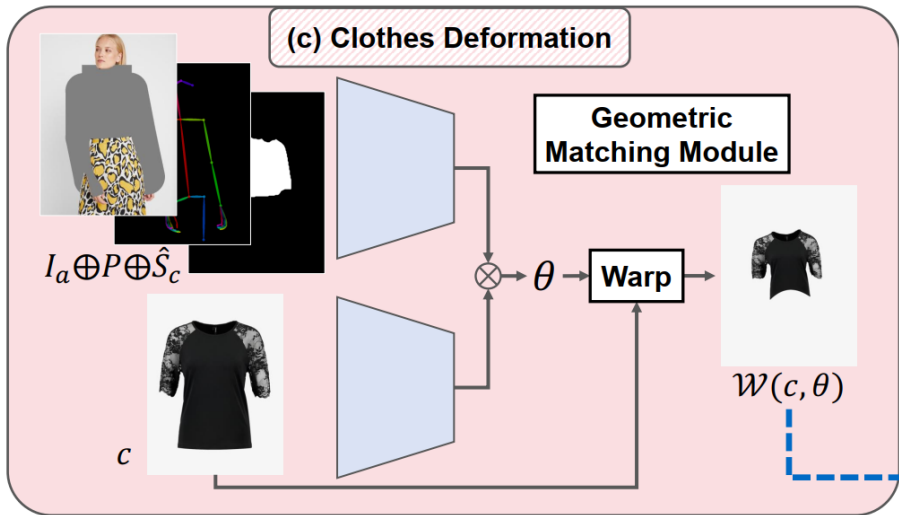


3. Segmentation Generator

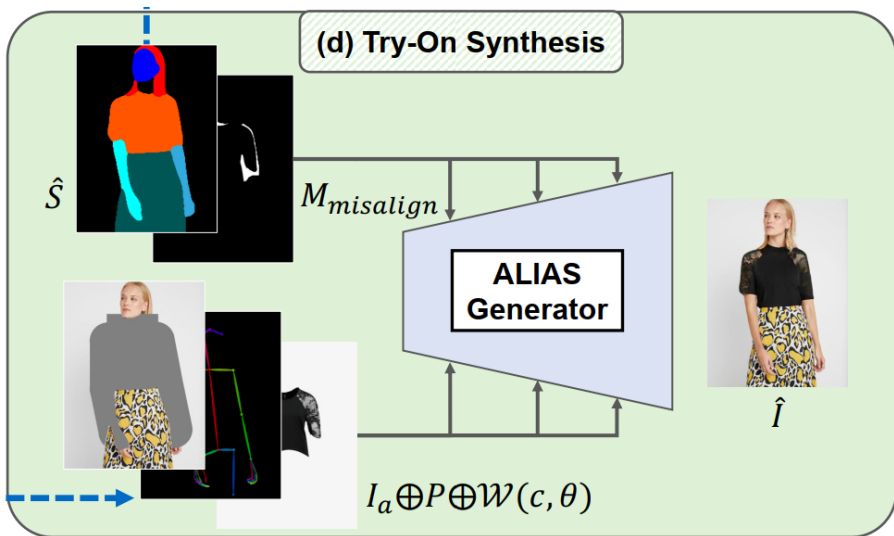
(b) Segmentation Generation



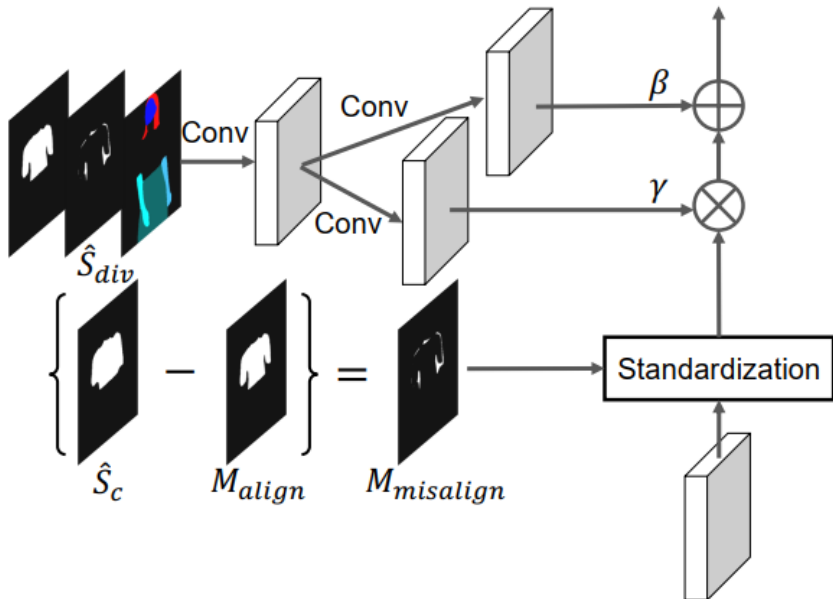
4. Geometric Matching Module



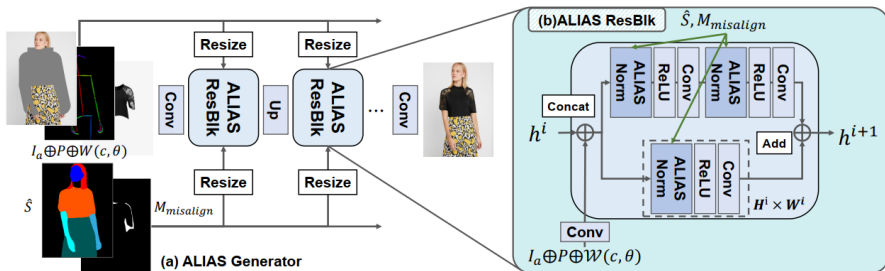
5. ALIAS Generator



5.1 ALIAS normalization



5.2 ALIAS generator



- VITON-HD: High-Resolution Virtual Try-On via Misalignment-Aware Normalization

The End