

Department of Electrical Engineering

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Stable Diffusion LoRA Based Virtual Try-On

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Objective

- Develop a stable diffusion-based cloth transfer method for virtual try-on
- Evaluate the performance of the proposed method on a variety of datasets and settings
- Develop a user-friendly interface that allows users to easily upload their images

and try on different clothes virtually

Methodology

LoRA Model Training **User Interface** Remove Data preprocessing (Perform virtual background and Select pre-(Data annotation, Train LoRA model Load try-on by using face for training trained training remove unwanted tag, (With custom the LoRA model data model data setup custom tag) configuration) for inpainting) Model Used ♣ Test output model with different **Training Data:** LoRA Model: Pretrained parameters combination Images contain Weights • Text subject $W \in \mathbb{R}^{d \times d}$ the cloth to be $= \mathcal{N}(0, \sigma^2)$ representation trained

Segment Anything Model:

- Segmentation
- Control output region







Results & Application

Parameter (for Training LoRA Model)	Best Setting	D Upload your safetensors format inpaint mode
Pre-trained Model (Inpaint Model)	AnyLoRA (EpicRealism)	① Drop File
No. of Repeats	40	- or - Click to Up
Network Dimension	128	Upload your target image
Network Alpha	128	
Optimizer	Lion	
Learning Scheduler	Constant	
Gradient Accumulation Steps	1	
Best Epoch	10 (for 20~30 images) 11 (for 10~20 images)	Segmentation Result
Others	Default	
Parameter (for Generation)	Best Setting	Input the index for the masked region that
LoRA Scale	1	
Denoising Strength	0.75	Mask generated from segmentation
Others	Default	
Seed: 1344762032 Seed	: 2795636557 Seed: 836781716 Seed: 7624051	11
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D Upload your safetensors format inpaint model	D Upload your safetensors format lora model				
<u>ئ</u>	£				
Dron File Here	Dron File Here				
- or -	- or -				
Click to Upload	Click to Upload				
Deload your target image					
<u></u>					
Drop Image Here					
- or -					
Click to Upload					
<u>ی</u>					
Segmentation					
Segmentation Result					
	2				

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Positive Prompt		
Negative Prompt		
hands, face, head, neck, longbody, lowres, bad anatomy, bad hands, missing fingers, extra digit, fewer digits, cropped, worst quality, low quality	/	
Seed 0 is random seed		
0		
LoRA Scale	1	
Guidance Scale/CFG Value	2.5	
Denoising Strength	1	
		C



