



AnyDressing: Customizable Multi-Garment Virtual Dressing via **Latent Diffusion Models**

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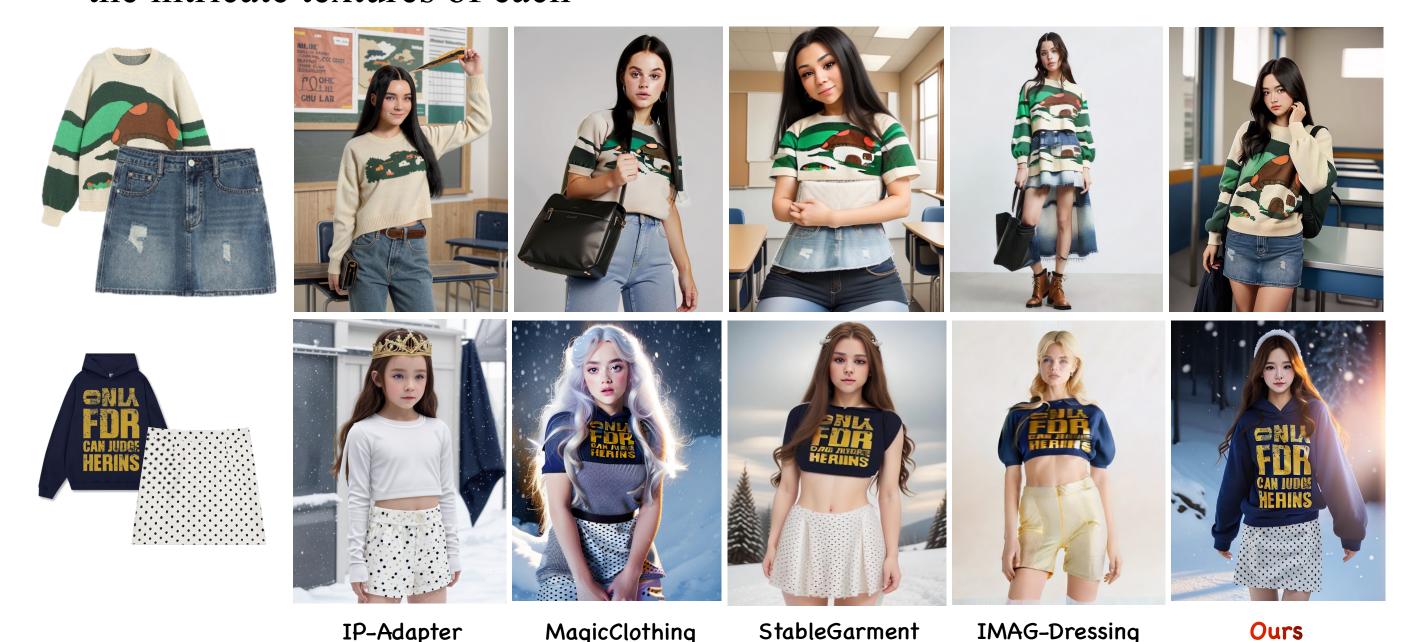




Challenge

Multi-Garment Virtual Dressing:

Garment Fidelity: Existing methods encounter confusion while preserving the intricate textures of each



Text-Image Consistency: Ensure the faithfulness to the prompts











IMAG-Dressing

Plugin Compatibility



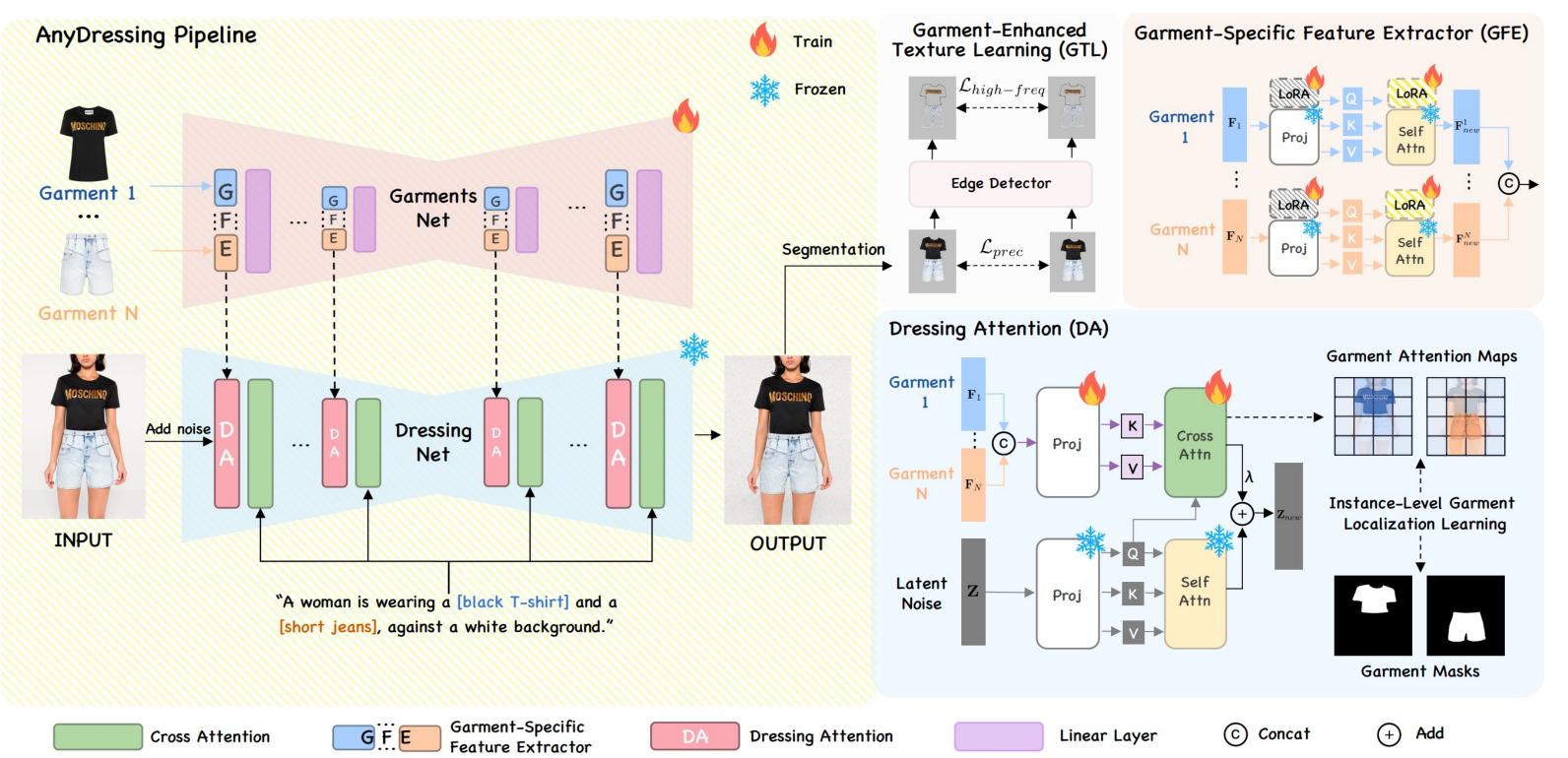
with ControlNet & IP-Adapter-FaceID





Try-on

Method



- GarmentsNet: Efficiently capture multi-garment textures in parallel by employing Garment-Specific Feature Extractor, which utilizes parallelized self-attention Lora layers within a shared U-Net architecture to individually encode garment textures
- **DressingNet:** Incorporating a **Dressing Attention (DA)** mechanism to seamlessly integrate multi-garment features into the denoising process; introducing a novel Instance Level Garment Localization (IGL) learning strategy to avoid influencing other irrelevant regions in the synthetic image
- Garment-Enhanced Texture Learning: Imposing constraints from perceptual features and high-frequency information to effectively enhance the fine-grained texture details in synthetic images
- **507A Performance:** Seamlessly integrate with any community control plugins and both quantitative and qualitative results demonstrate the superiority of our AnyDressing

Results

AnyDressing outperforms baselines in all metrics

	Single Grament								Multiple Graments			
Method	VITON-HD [5]				Proprietary Dataset				Dressing-Pair			
	CLIP-T↑	CLIP-I	CLIP-AS	↑DINO ↑	CLIP-T	↑CLIP-I ↑	CLIP-AS	↑DINO ↑	CLIP-T	↑CLIP-I*	↑CLIP-AS	↑DINO*
IP-Adapter [54]	0.268	0.644	5.674	0.500	0.272	0.632	5.678	0.460	0.277	0.523	5.795	0.350
StableGarment [48]	0.285	0.583	5.781	0.522	0.281	0.587	5.648	0.510	0.284	0.556	5.735	0.412
MagicClothing [4]	0.288	0.640	5.703	0.363	0.298	0.619	5.784	0.340	0.266	0.583	5.540	0.290
IMAGDressing [42]	0.202	0.734	5.077	0.553	0.230	0.684	5.133	0.453	0.242	0.614	5.291	0.378
Ours	0.289	0.741	5.881	0.571	0.296	0.710	5.931	0.559	0.296	0.734	5.874	0.674



The effectiveness of each proposed module









