

## Appendix A. Additional results

In this section, we provide additional experimental results of our approach in different clothing scenarios. Fig. 1 showcases diverse edits on various clothing images under fixed mask shapes, demonstrating the robustness of our approach in editing different clothing images. These edits include the addition of buttons, labels, pockets with buttons, pattern additions, and collar modifications. Fig. 2 demonstrates the flexibility of our model in editing arbitrary positions on real clothing images. The results presented in Fig. 3 illustrate that the shape of the mask has a minimal impact on the model's ability to generate realistic clothing images. It is only when the entire mask is used that the model loses reference to the original colors of the clothing.



Fig. 1 Additional visual results.



Fig. 2 Our method enables the user to edit different regions in the same clothing images.



Fig. 3 The generation effects under different mask shapes.

## Appendix B. Implementation Details

We adopt ControlNet as our baseline model and choose a publicly available

Lineart model for sketch generation as initialization. Initially, we extend the first convolutional layer of the hint block in ControlNet with four additional channels (3 representing the masked image, 1 representing the mask image) and initialize the newly added weights with zeros. Our Inverse latent loss function is updated every 100 steps. We utilize GPUs with an A100 memory size of 40GB, a batch size of 4, and a learning rate of  $1e-5$ . Training is conducted for two days, reaching over 90k steps.

### Appendix C. Limitation and hard-case analysis

Our approach achieves excellent generation results on fashion design sketches, as shown Fig. 4, with images exhibiting shaded areas and sufficient detail. However, our method performs poorly on certain clothing images. As illustrated in Fig. 5, using collar sketches without details as reference images results in transparency and low-quality clothing images.



Fig. 4 Fashion design sketch images.



Fig. 5 Some failure cases.