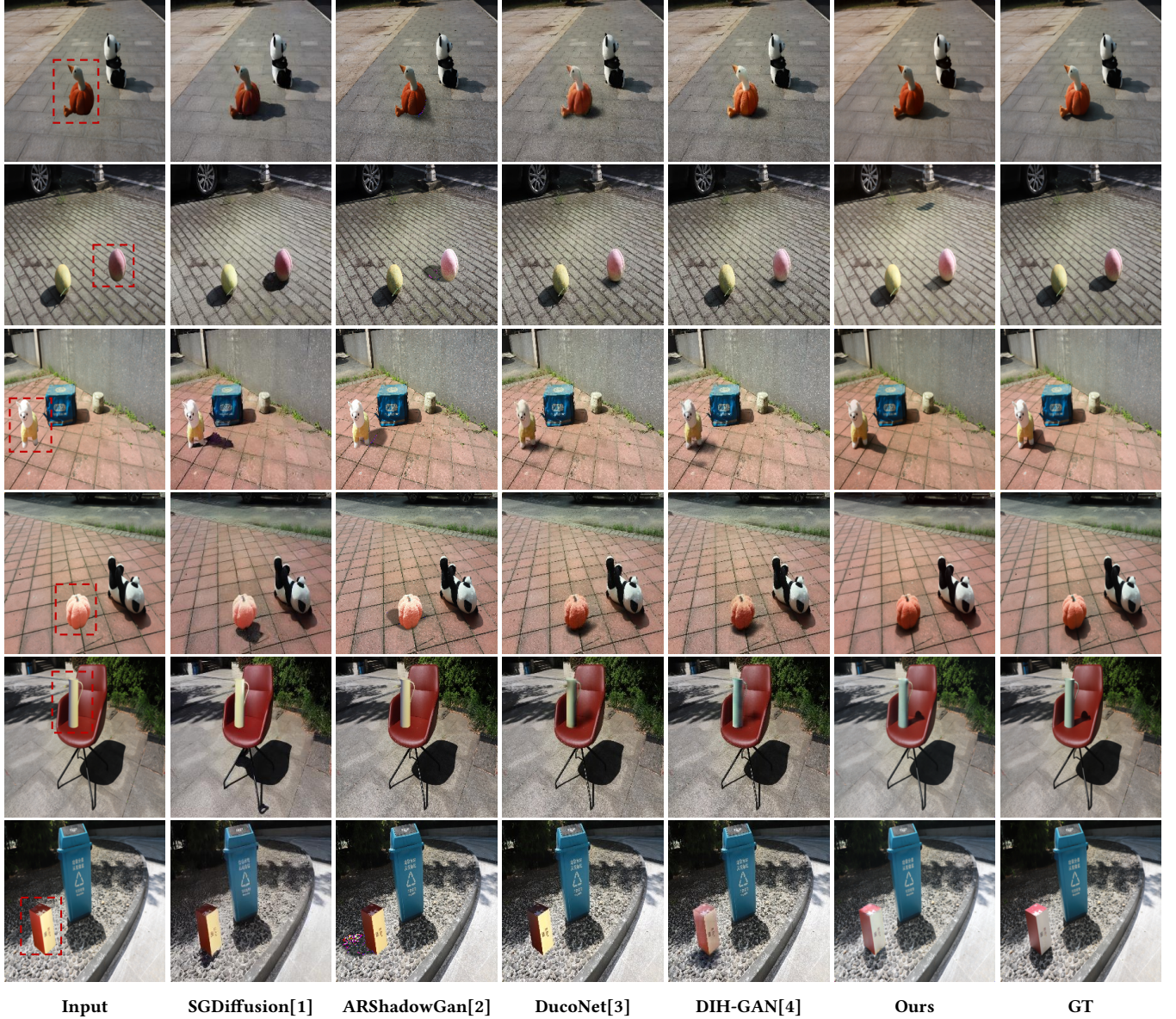


Supplementary Materials: Controllable Foreground Relighting in Image Compositing via Diffusion Model

Anonymous Authors



Input SGDiffusion[1] ARShadowGan[2] DucoNet[3] DIH-GAN[4] Ours GT

Figure 1: In this supplementary material, we present additional visual comparison results

1 RESEARCH METHODS

"As shown in Figure 1, we provide additional comparative experimental results. Furthermore, Table 1 illustrates the structure of a single layer encoder with foreground content enhancement module."

REFERENCES

- [1] Qingyang Liu, Junqi You, Jianting Wang, Xinhao Tao, Bo Zhang, and Li Niu. Shadow generation for composite image using diffusion model. *arXiv preprint arXiv:2403.15234*, 2024.
- [2] Daquan Liu, Chengjiang Long, Hongpan Zhang, Hanning Yu, Xinzhi Dong, and Chunxia Xiao. Arshadowgan: Shadow generative adversarial network for augmented reality in single light scenes. In *2020 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, Jun 2020.

Table 1

name	layers
TimestepEmbedSequential	Conv2d
2-TimestepEmbedSequential	ResBlock
SpatialTransformer	GroupNorm
	Conv2d
	TransformerBlock
	Conv2d
refineBlock	GroupNorm
	GroupNorm
	Conv2d
	Conv2d
	Conv2d
	GroupNorm
	Conv2d
	Conv2d
3-TimestepEmbedSequential	Downsample

[3] Linfeng Tan, Jiangtong Li, Li Niu, and Liqing Zhang. Deep image harmonization in dual color spaces. Aug 2023.

[4] Zhongyun Bao, Chengjiang Long, Gang Fu, Daquan Liu, Yuanzhen Li, Jiaming Wu, and Chunxia Xiao. Deep image-based illumination harmonization.