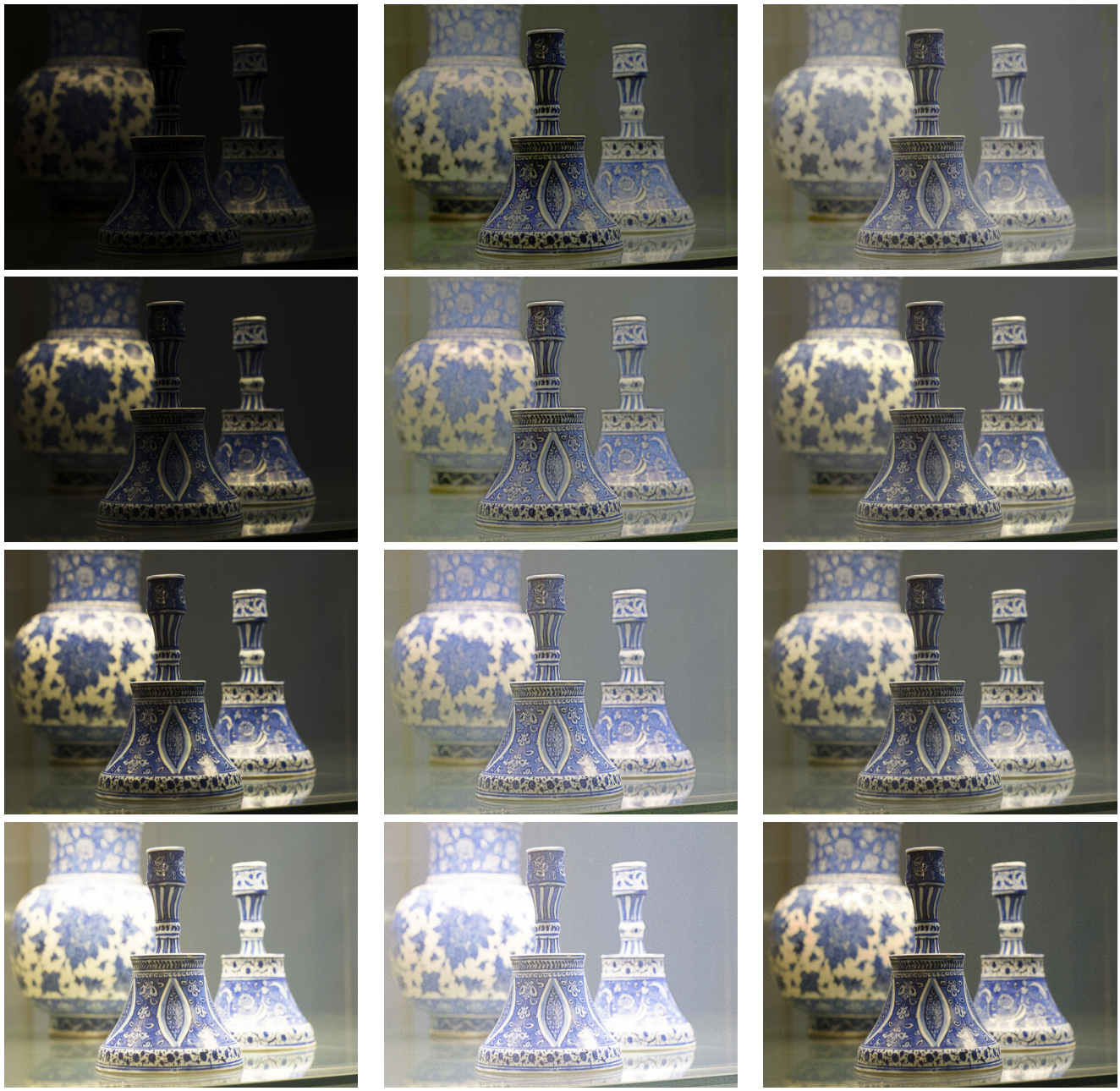
CURVE: CLIP-Utilized Reinforcement Learning for Visual Image Enhancement via Simple Image Processing

Supplementary Material

We show some samples of enhanced images produced by our proposed CURVE and conventional methods.



Original(input) Zero-DCE CURVE(ours)

Fig. 1. Enhancement results on multi-exposure images from the SICE Part 2 dataset. Left: Input multi-exposure images. Middle: Results of Zero-DCE. Right: Results of our proposed CURVE.

Fig. 2. Enhancement results on multi-exposure images from the SICE Part 2 dataset. Left: Input multi-exposure images. Middle: Results of Zero-DCE. Right: Results of our proposed CURVE.

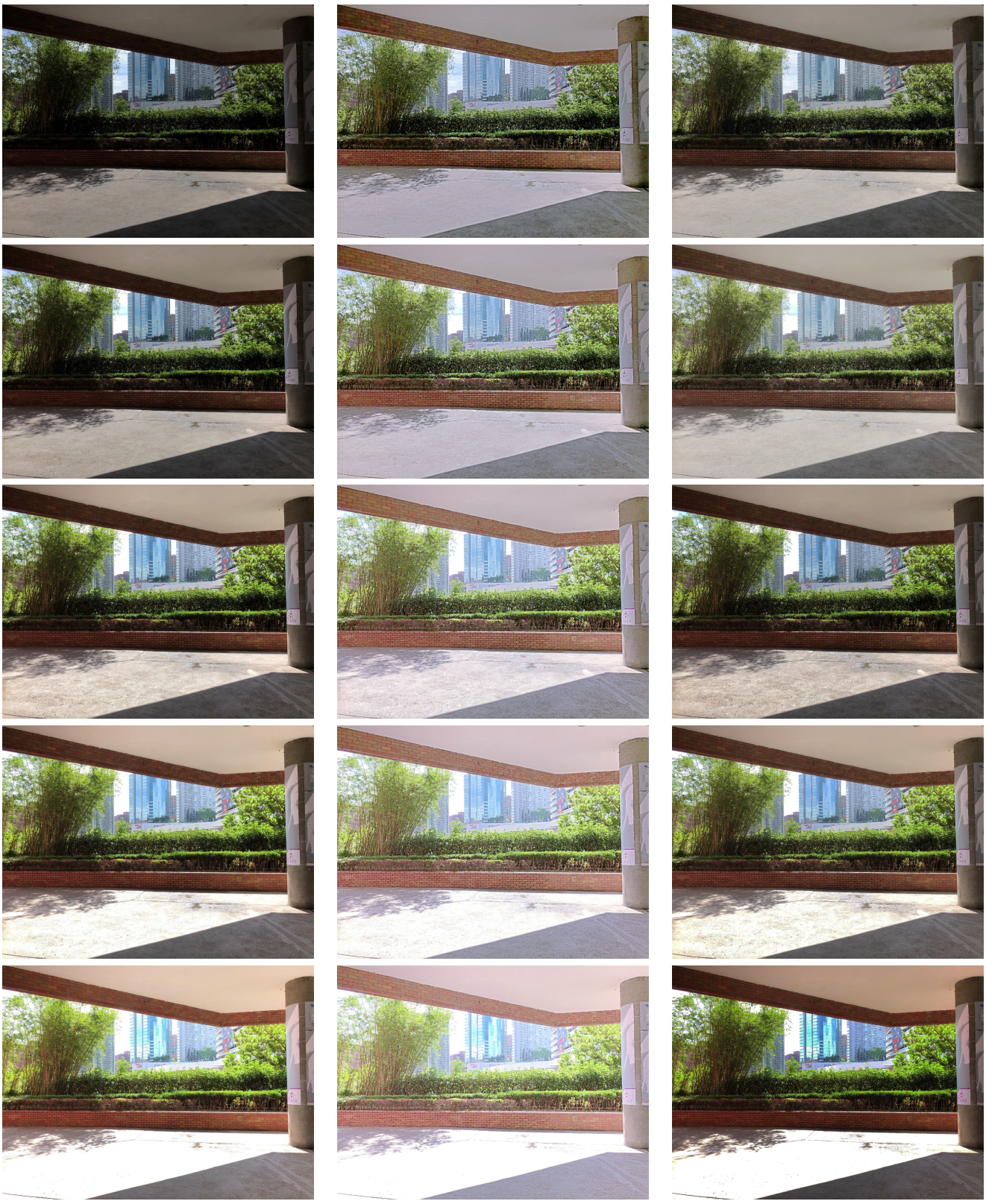


Fig. 3. Enhancement results on multi-exposure images from the SICE Part 2 dataset. Left: Input multi-exposure images. Middle: Results of Zero-DCE. Right: Results of our proposed CURVE.

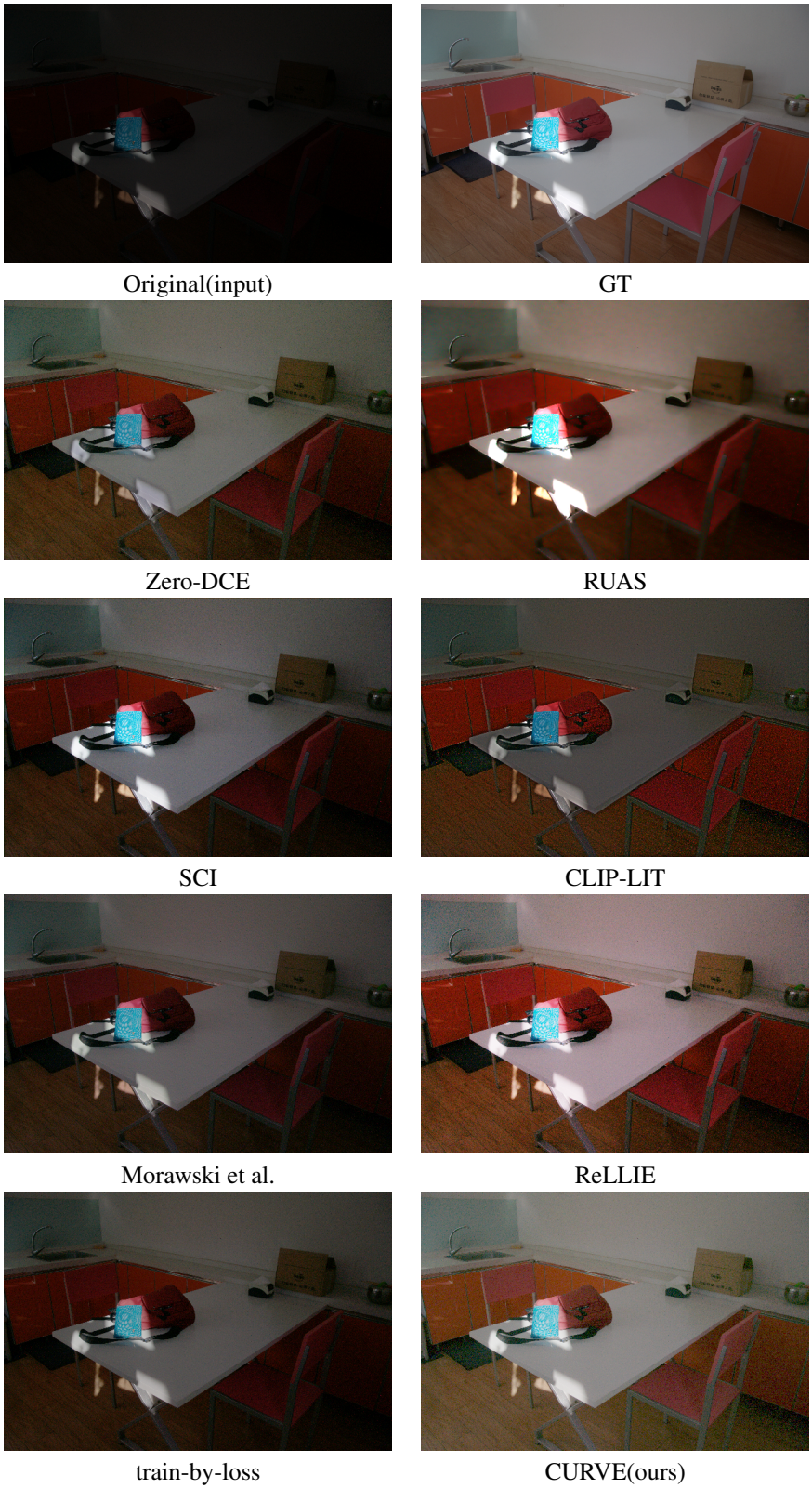


Fig. 4. Enhancement results of our experiments on low-light images from the LoLv2Real dataset. The top row shows the input low-light image and ground truth (GT). Rows 2-5 show the results of six conventional zero-reference LLIE methods, an ablation study (train-by-loss), and our proposed CURVE.

Fig. 5. Enhancement results of our experiments on low-light images from the LoLv2Real dataset. The top row shows the input low-light image and ground truth (GT). Rows 2-5 show the results of six conventional zero-reference LLIE methods, an ablation study (train-by-loss), and our proposed CURVE.