CFPNet: Improving Lightweight ToF Depth Completion via Cross-zone Feature Propagation

Supplementary Material

In this supplementary material, we provide additional visual comparisons. More results comparing our CFPNet and DELTAR [21] are given in Fig. 9 and 10. Furthermore, we offer additional results to demonstrate the superior depth completion performance of our CFPNet and the advantage of our direct-attention-based propagation module (DAPM) over large-kernel-based propagation module (LKPM) when the ToF signal is of resolution 2×2 in Fig. 11.
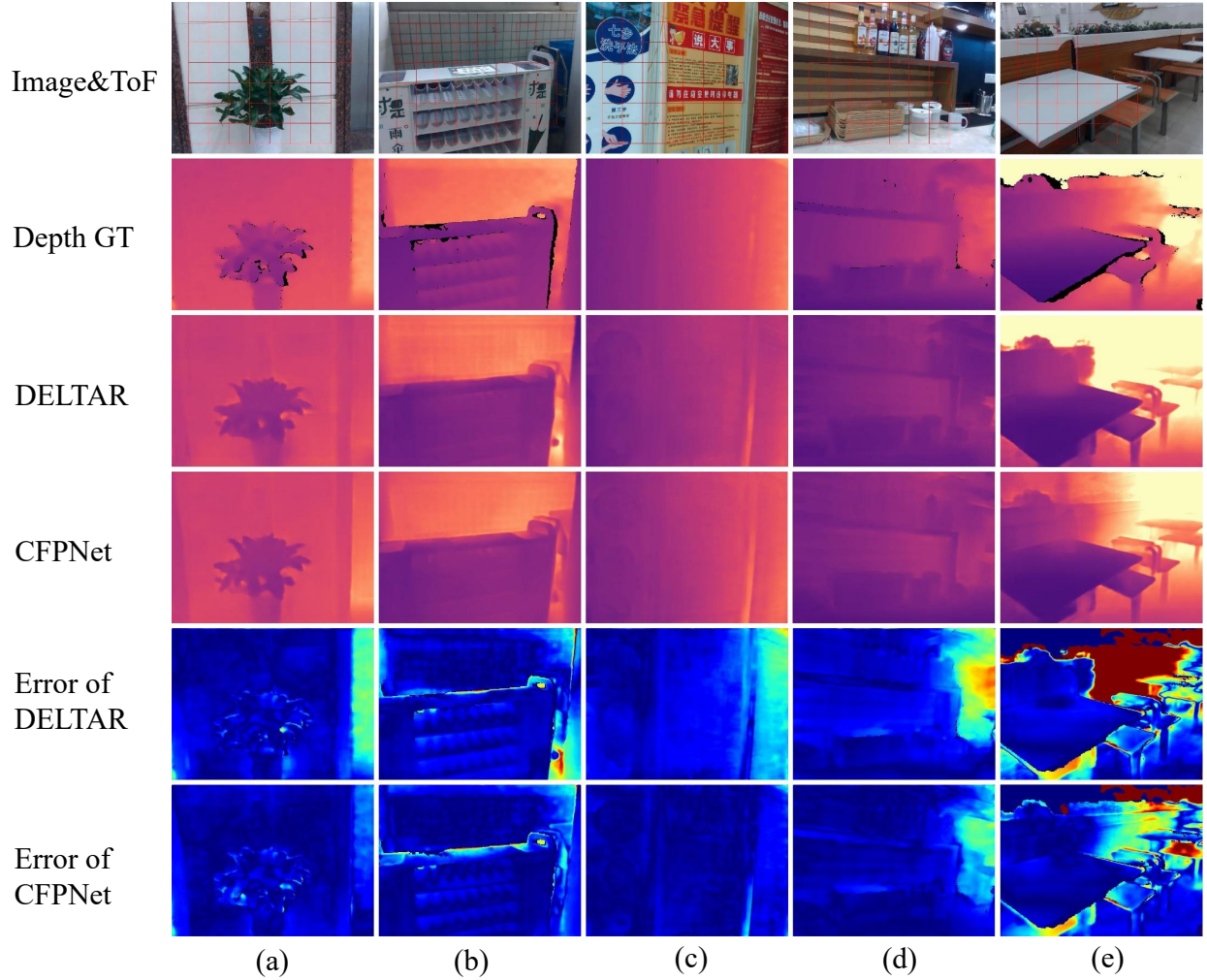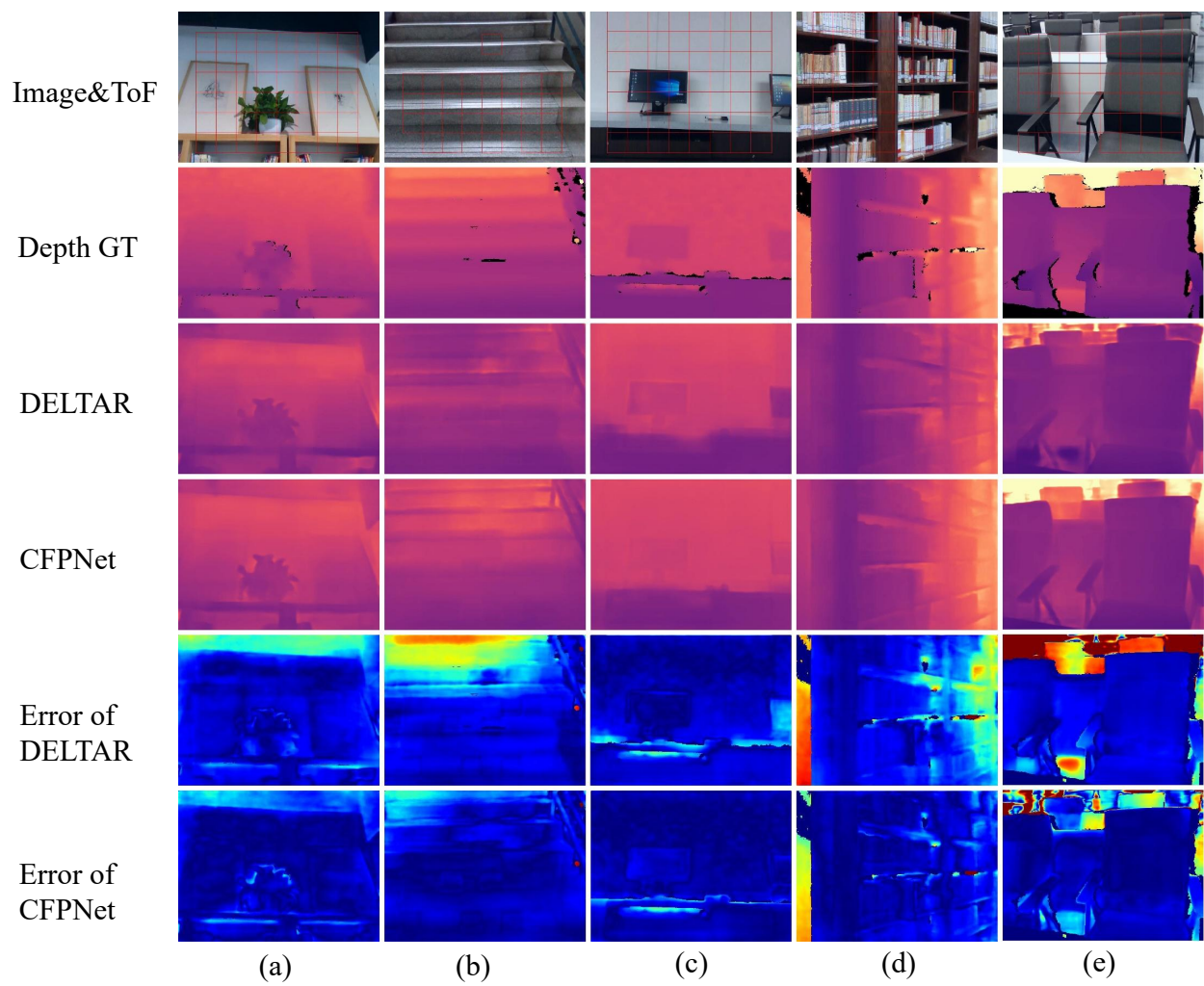

Figure 9. More qualitative comparisons on the ZJU-L5 dataset. Our CFPNet achieve lower errors in outside-zone areas.

Figure 10. More qualitative comparisons on the ZJU-L5 dataset. Our CFPNet achieve lower errors in outside-zone areas.
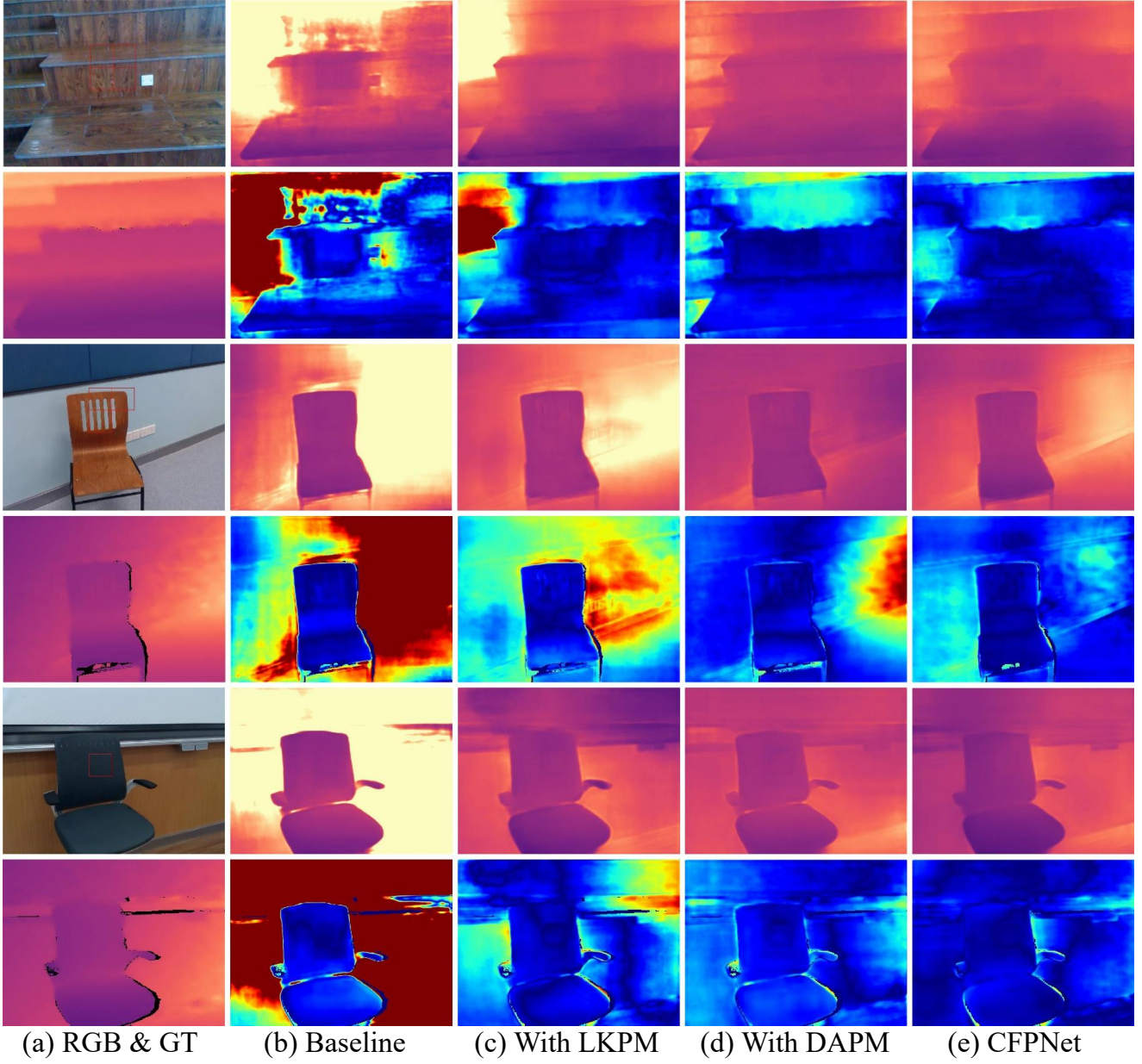
(a) RGB & GT   (b) Baseline   (c) With LKPM   (d) With DAPM   (e) CFPNet

Figure 11. More qualitative comparisons on the ZJU-L5 dataset where we simulate the ToF signal is of resolution 2×2. In this simulated large-FOV-difference case, our CFPNet can obtain superior performance compared with our baseline method [21]. Moreover, the benefits of DAPM are greater than those of LKPM in this scenario.