

Consistent Stereo Image Editing (Supplementary Materials)

Tao Yan^{1,2}, Shengfeng He², Rynson W.H. Lau², Yun Xu¹

¹ University of Science and Technology of China, China

² City University of Hong Kong, Hong Kong

yantao@mail.ustc.edu.cn, shengfeng_he@yahoo.com, rynson.lau@cityu.edu.hk, xuyun@ustc.edu.cn

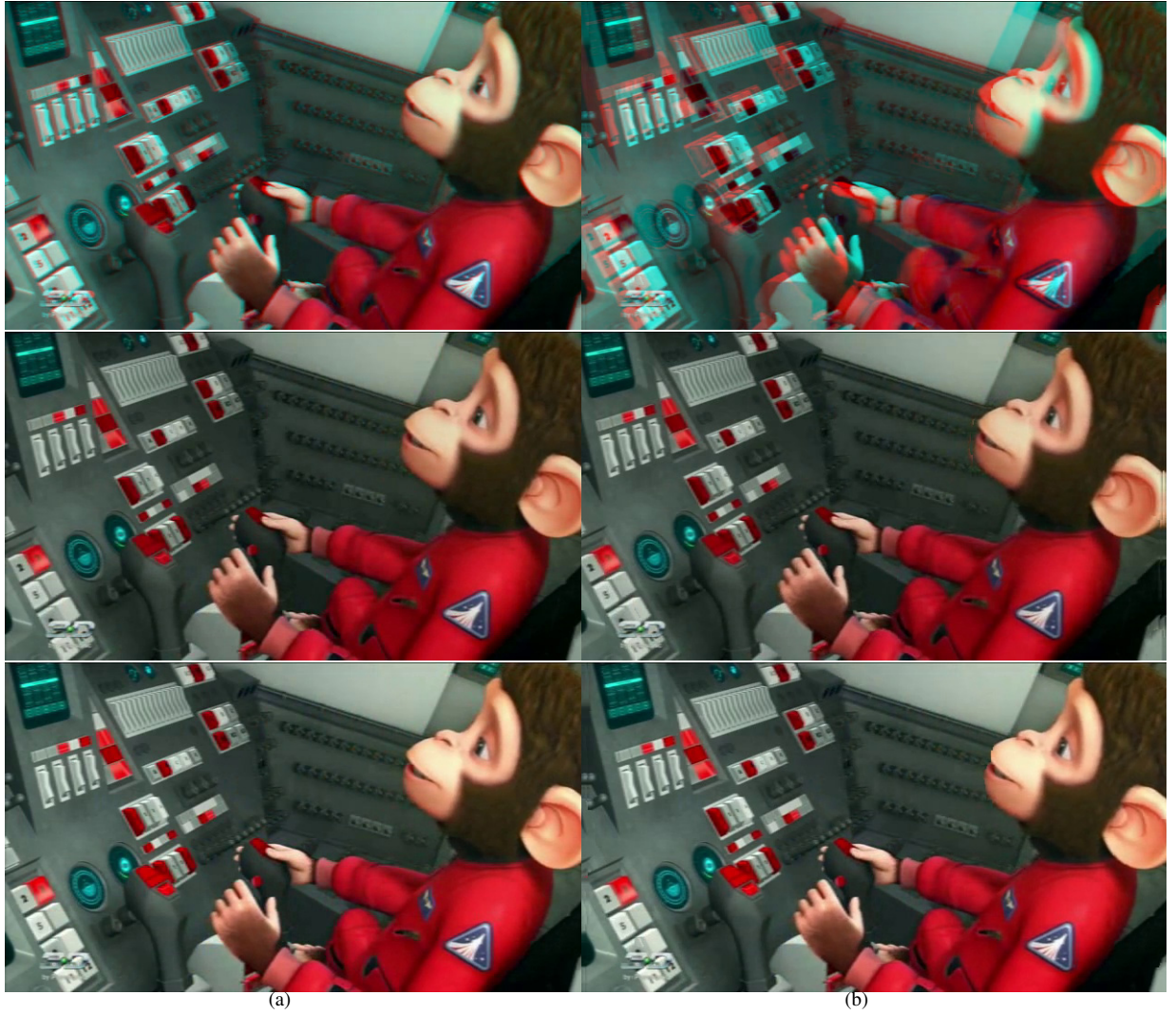


Figure 1. Depth mapping: (a) original stereo image and its left and right images; (b) our depth mapping result. The image pairs from top to bottom are: stereo images, left images, right images. The target depth range is set using $\eta_1 = 0^\circ$ and $\eta_2 = 2^\circ$.



Figure 2. Depth mapping: (a) original stereo image and its left and right images; (b) our depth mapping result. The image pairs from top to bottom are: stereo images, left images, right images. The target depth range is set using $\eta_1 = -0.6^\circ$ and $\eta_2 = 0.8^\circ$.

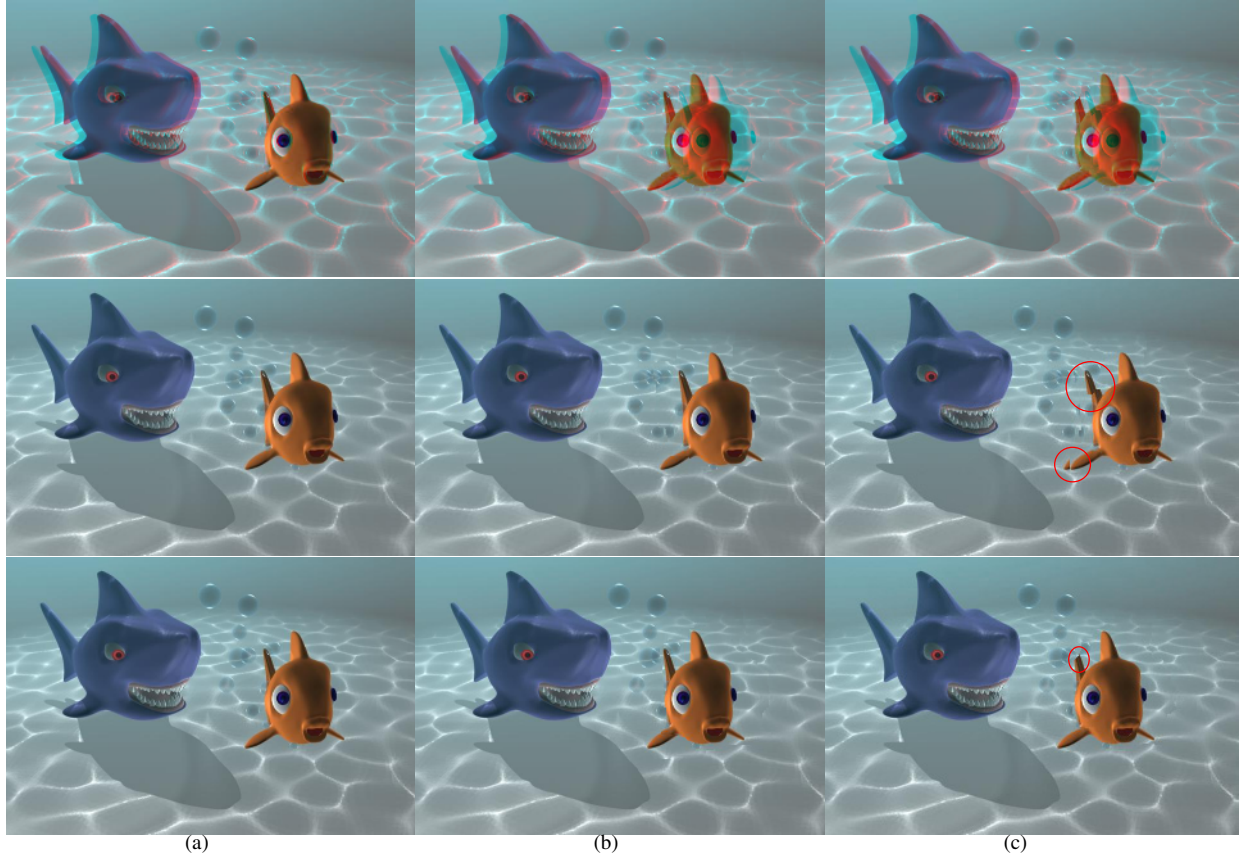


Figure 3. Depth mapping: (a) original stereo image and its left and right images; (b) our depth mapping result; (c) our depth mapping result without photo consistent constraint. The images from top to bottom are: stereo images, left images, right images. The target depth range is set using $\eta_1 = -0.6^\circ$ and $\eta_2 = 0.6^\circ$.



Figure 4. Depth mapping: (a) original stereo image and its left and right images; (b) our result; (c) our result without photo consistent constraint. The images from top to bottom are: stereo images, left images, right images. The target depth range is set using $\eta_1 = -0.6^\circ$ and $\eta_2 = 0.6^\circ$.



Figure 5. Depth mapping: (a) original stereo images; (b) our results; (c) results from [11]. The target depth range is set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.

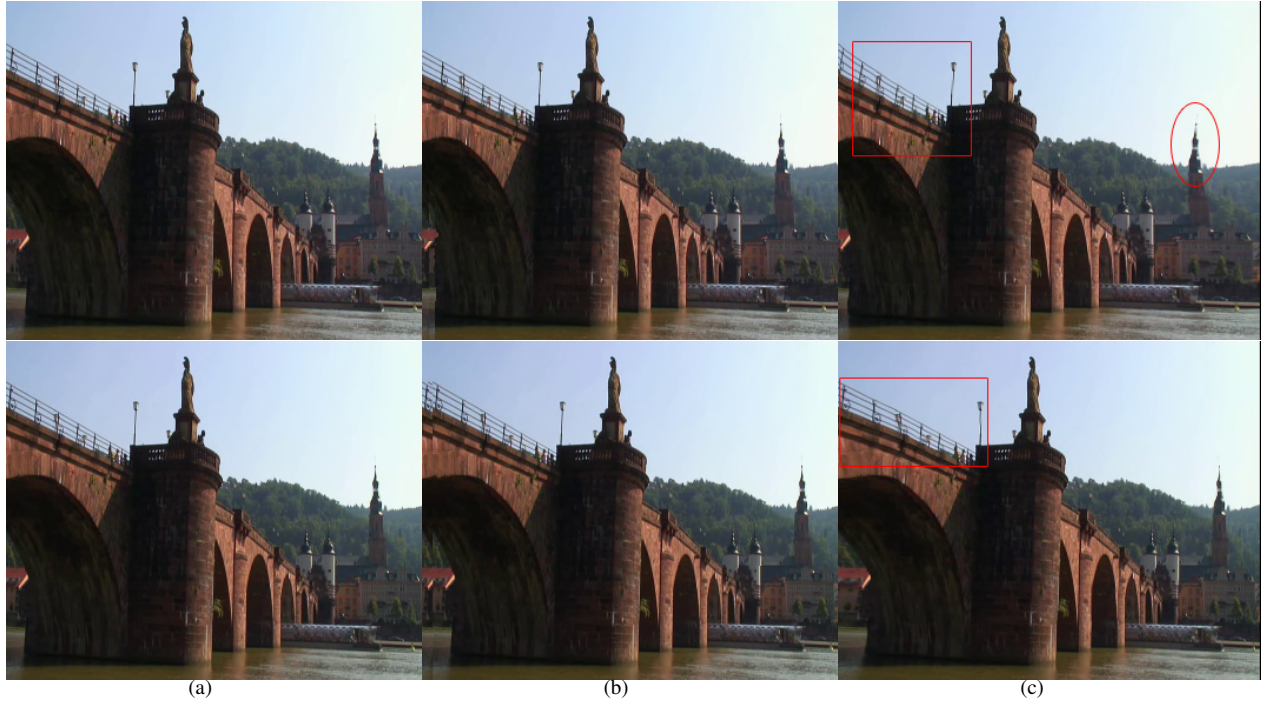


Figure 6. Depth mapping: Left and right images of the first row of Fig. 5. (a) original left and right images; (b) our results; (c) results from [11]. First row is the left images; second row is the right images. The target depth range is set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.



Figure 7. Depth mapping: Left and right images of the second row of Fig. 5. (a) original left and right images; (b) our results; (c) results from [11]. First row is the left images; second row is the right images. The target depth set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.

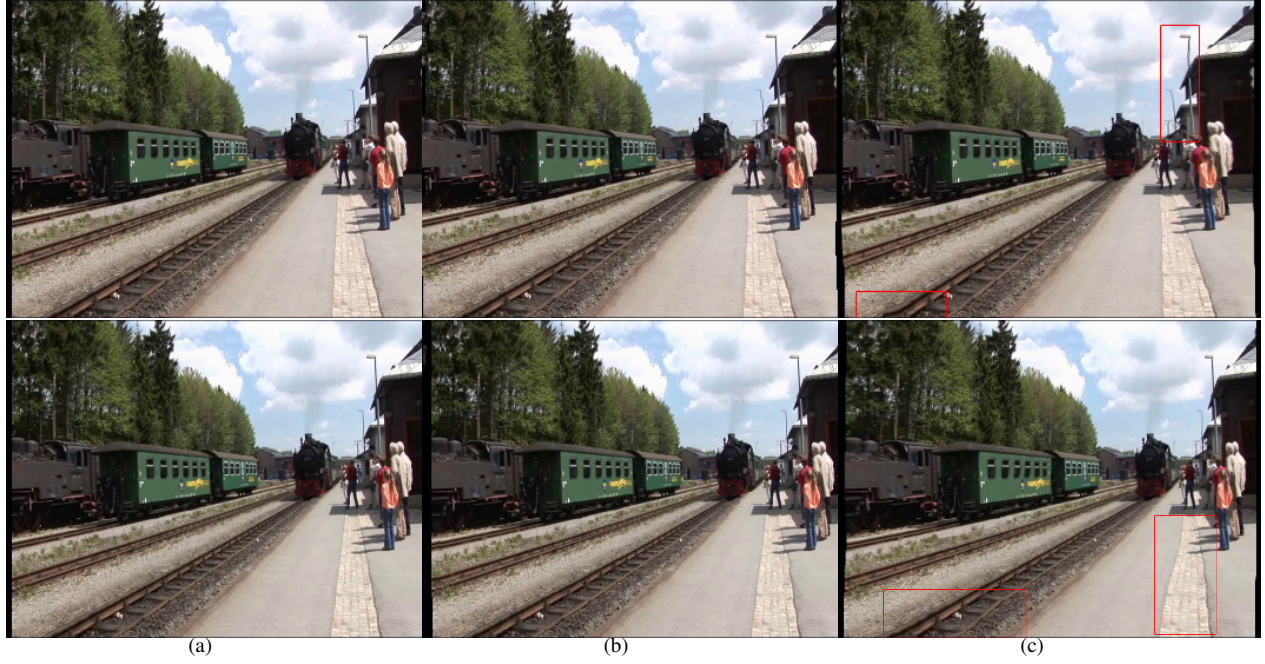


Figure 8. Depth mapping: Left and right images of the third row of Fig. 5. (a) original left and right images; (b) our results; (c) results from [11]. First row is the left images; second row is the right images. The target depth range is set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.



Figure 9. Depth mapping: Left and right images of the fourth row of Fig. 5. (a) original left and right images; (b) our results; (c) results from [11]. First row is the left images; second row is the right images. The target depth range is set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.



Figure 10. Depth mapping: Left and right images of the fifth row of Fig. 5. (a) original left and right images; (b) our results; (c) results from [11]. First row is the left images; second row is the right images. The target depth range is set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.



Figure 11. Depth mapping: (a) original stereo image and its left and right images; (b) our results; (c) results from [11]. The target depth is set using $\eta_1 = 0$ and $\eta_2 = 1^\circ$.



Figure 12. Object depth adjustment: (a) original stereo image and its left and right images; (b) our results. First row is the stereo images; second row is the left images; third row is right images.

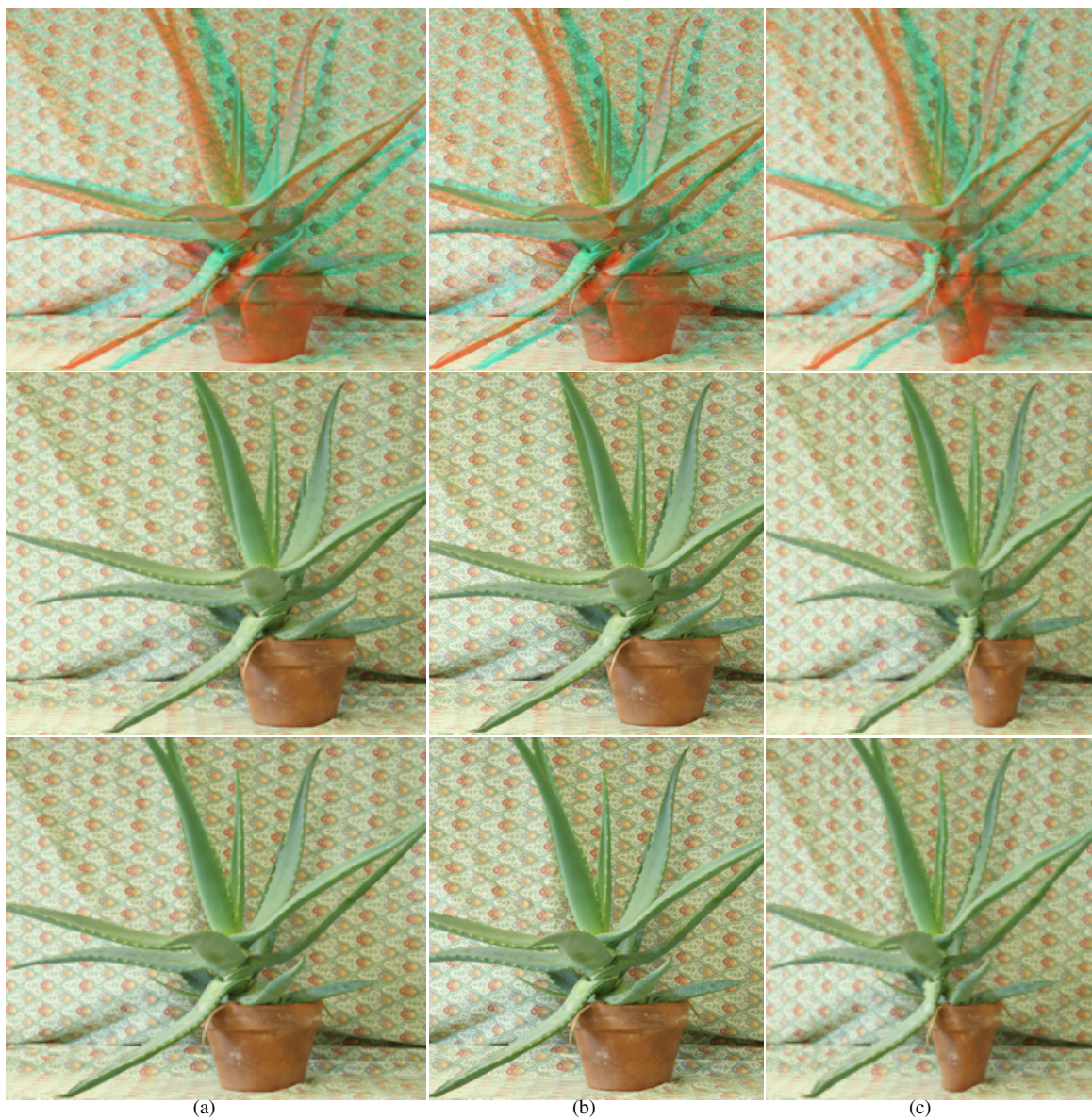


Figure 13. Non-homogenous image resizing: (a) original stereo image and its left and right images; (b) our results; (c) results from geometrically consistent stereo seam carving [1]. First row is the stereo images; second row is the left images; third row is the right images.



Figure 14. Non-homogenous image resizing: (a) original stereo image and its left and right images; (b) our results; (c) results from geometrically consistent stereo seam carving [1]. First row is the stereo images; second row is the left images; third row is the right images.