Supplementary Material for IJCAI 2019

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1 Image Recoloring compared with PaletteNet

Since there is no public code for PaletteNet to test arbitrary images, we cite its results directly from the CVPR workshop paper. The experiment shows that PaletteNet is not a completely palette-based controllable method for recoloring, some artifacts such as wrong color transfer and overflow are marked with boxes.

Figure 1. A comparison of image recoloring among our proposed method and that of PaletteNet.

2 The New Schematic of Figure 6

We save all the images in PNG format, and the new schematic of figure 6 is as below.

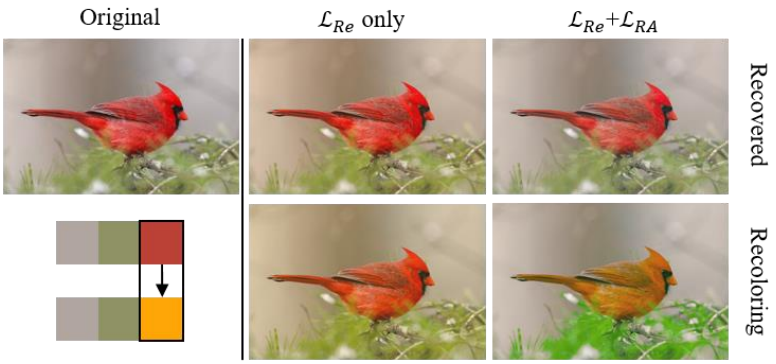

Figure 2: Comparisons of recovered images and recolorings without and with $\mathcal{L}_{RA}$ loss. CUB-200-2011 da**tase**t. [Wah et al., 2011]

3 Failure case

Our recoloring doesn't work as expected if the image contains lots of transitional and multiple colors. Figure 3 shows the unnatural artifacts in the color mixing areas marked with boxes.

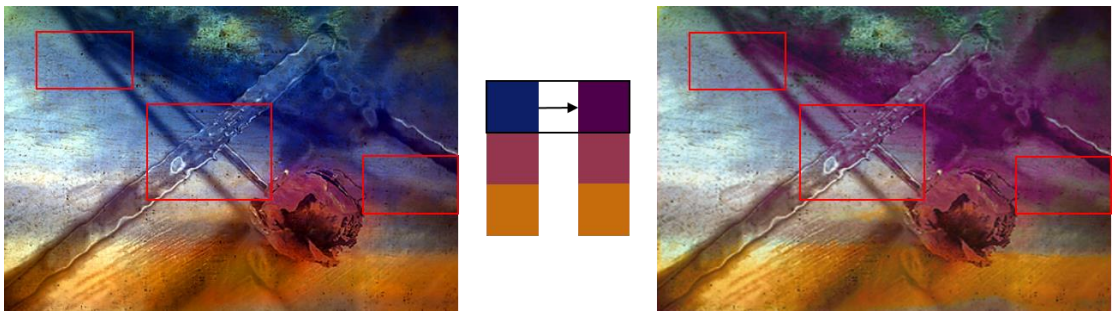

Figure 3. Failure case of image recoloring.