# Supplementary Materials



Figure 1: Comparisons of image harmonization.

## 1. Painterly Image Harmonization

The proposed method can perform painterly image harmonization. Figure 1 shows our painterly image harmonization results. The images were collected using the Google search engine.

## 2. Failure Case

Figure 2 shows a failure case of our proposed method. When the style weight is too high, some style images distort the content image too much. For such cases, a lower style weight is recommended to retain the content image.

## 3. Additional Qualitative Results

Figures 3, 4, and 5 show additional examples of our method. These examples were trained using the settings $\lambda_c$ = 1, $\lambda_s$ = 3, $\lambda_{identity1}$ = 1, and $\lambda_{identity2}$ = 50.



Figure 2: Failure case. At $\lambda_s$ = 3, the high style weight distorts the content image too much. At $\lambda_s$ = 1, the lower style weight retains the content image well.

Figure 3: Example results of the proposed method (1/3). The top row shows the original content images, and the left column shows the original style images.

Figure 4: Example results of the proposed method (2/3). The top row shows the original content images, and the left column shows the original style images.
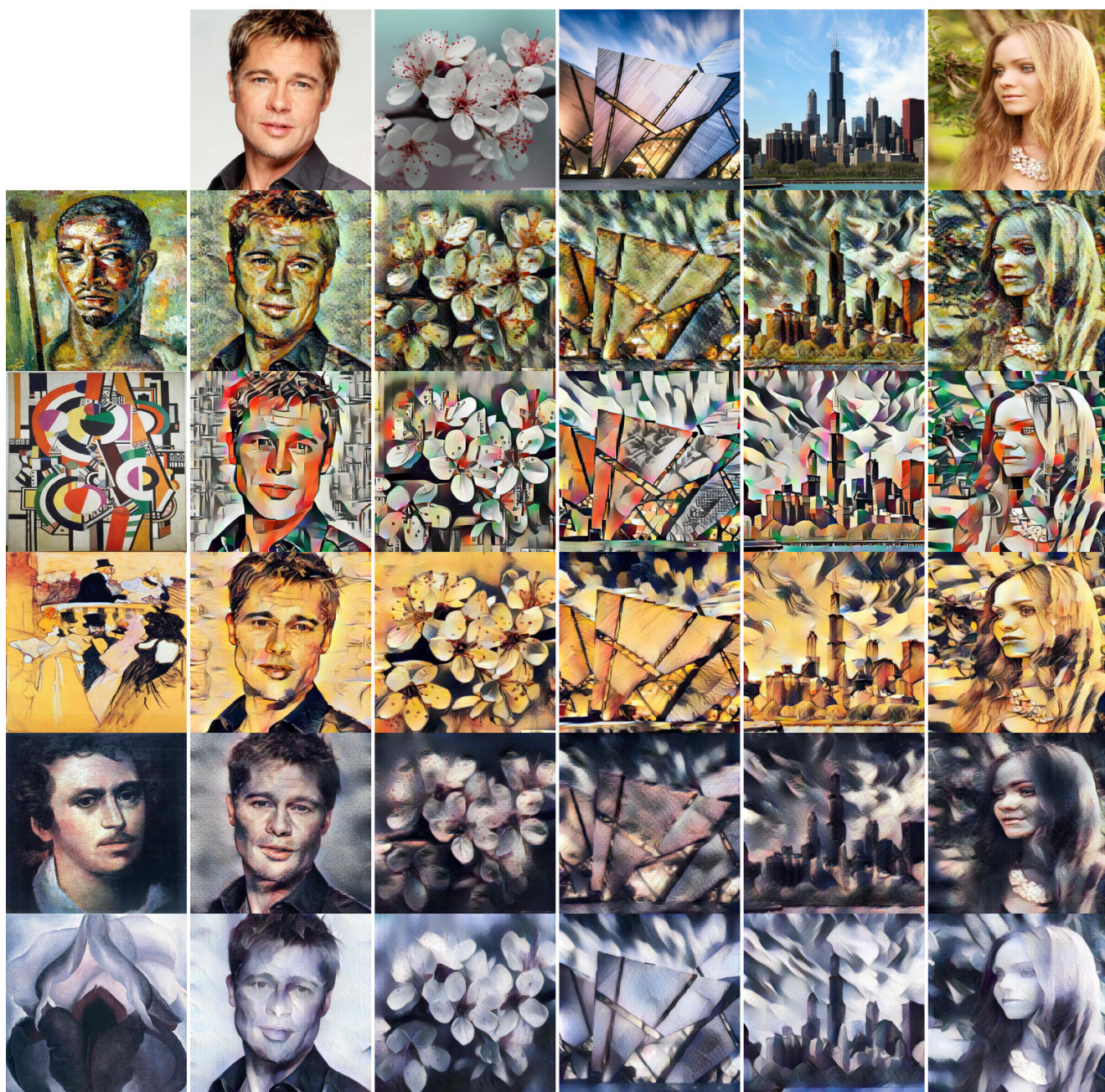
Figure 5: Example results of the proposed method (3/3). The top row shows the original content images, and the left column shows the original style images.