| %以下是用户可以修改的参数,src_num 为原图编号从1到4,target_num 为模板编号从1到6 |
|---|
| % 默认每一个模板对应一种滤镜,可以修改: |
| % 其中 1 对应油画风格,2 对应墙体风格,3 对应毛玻璃风格,4 对应黑白风格,5 对应素描风格,6 对应怀旧风格 |
| src_num = 1; |
| target_num = 3; |
| filter_num = target_num; |
| |
| % 读取原图并显示 |
| img_src = imread(strcat('./ <mark>源图像</mark> /sourcelmage', int2str(src_num), '.jpg')); |
| figure(1); |
| subplot(2,3,1); |
| imshow(img_src,[]); |
| title('img_src'); |
| |
| % 读取目标图并显示 |
| img_target = imread(strcat('./模板图像/targetImage', int2str(target_num), '.jpg')); |
| subplot(2,3,2); |
| imshow(img_target,[]); |
| title('img_target'); |
| |
| % 交互式地对目标图进行前背景分割,得到 mask |
| mask = GetMask(img_target); |
| subplot(2,3,3); |
| imshow(mask,[]); |
| title('mask'); |
| |
| % 对原图进行滤镜操作 |
| img_filter = Filter(img_src, filter_num); |
| subplot(2,3,4); |

```
if target_num == 3 \parallel target_num == 4 \parallel target_num == 5
    imshow(img_filter/255,[]);
    imshow(img\_filter,[]);
title('img\_filter');
% 进行变换
img_transform = Transform(img_filter, img_target);
subplot(2,3,5);
imshow(img\_transform, []);
title('img\_transform');
% 得到结果并显示
img_res = img_transform.*mask + img_target.*(1-mask);
subplot(2,3,6);
imshow(img_res,[]);
title('img\_res');
```

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