

```

function out = Transform(img_src,img_target)

src_height = size(img_src,1);

src_width = size(img_src,2);

src_x = [1 src_width 1 src_width]';

src_y = [1 1 src_height src_height]';


target_height = size(img_target,1);

target_width = size(img_target,2);

out=img_target;

figure(3);

imshow(img_target,[]);

title('请依次点击图片左上，右上，左下，右下四个顶点');


[target_x, target_y] = ginput(4);

tform = fitgeotrans([src_x src_y],[target_x target_y],'projective');

ImageRegistered = imwarp(img_src,tform,'OutputView',imref2d(size(out)));


mask = sum(ImageRegistered,3)~=0;

index = find(mask);

out(index) = ImageRegistered(index);

out(index+target_height*target_width) =
ImageRegistered(index+target_height*target_width);

out(index+2*target_height*target_width) =
ImageRegistered(index+2*target_height*target_width);


close(figure(3));

end

```