UNSHARP MASKING

1. Code:

function new\_image=myUnsharpMasking(old\_image\_path,s,sigma,save\_path)

a=load(old\_image\_path);

image=a.imageOrig;

old\_image=myLinearContrastStretching(image);

H = fspecial('gaussian',3,sigma);

blurred = imfilter(image,H,'replicate');

final\_image=image+s\*(image-blurred);

new\_image=myLinearContrastStretching(final\_image);

max(max(new\_image-old\_image))

imwrite(new\_image,save\_path);

end

1. Tuned Parameters

Scaling factor=10

Sigma=0.5

Final result:

