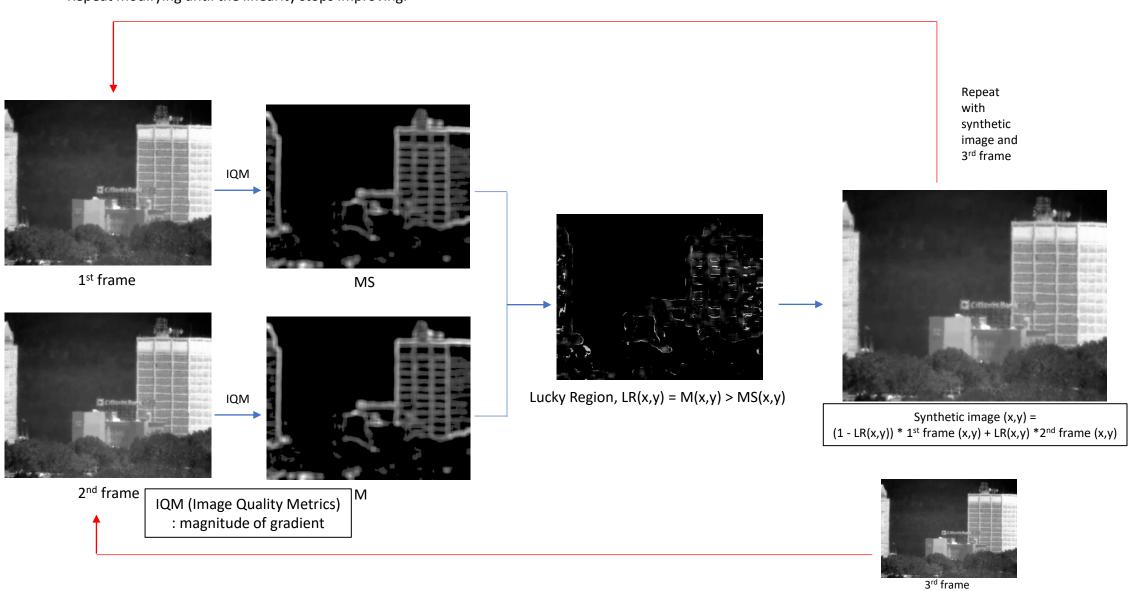
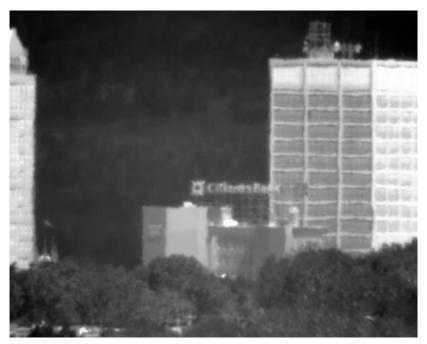
Lucky Region Fusion

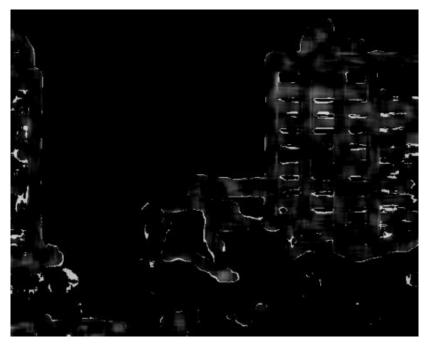
By Sang Moon

- Find the sharper regions in the next frame by IQM (image quality metrics).
- Replace the regions in the synthetic image with the sharper regions.
- Repeat modifying until the linearity stops improving.





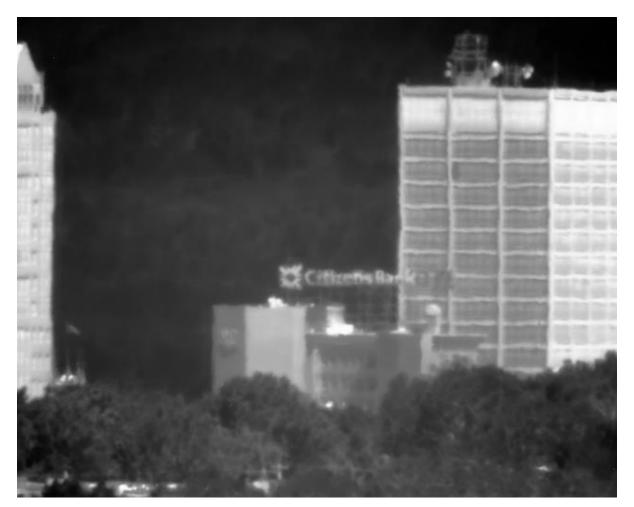




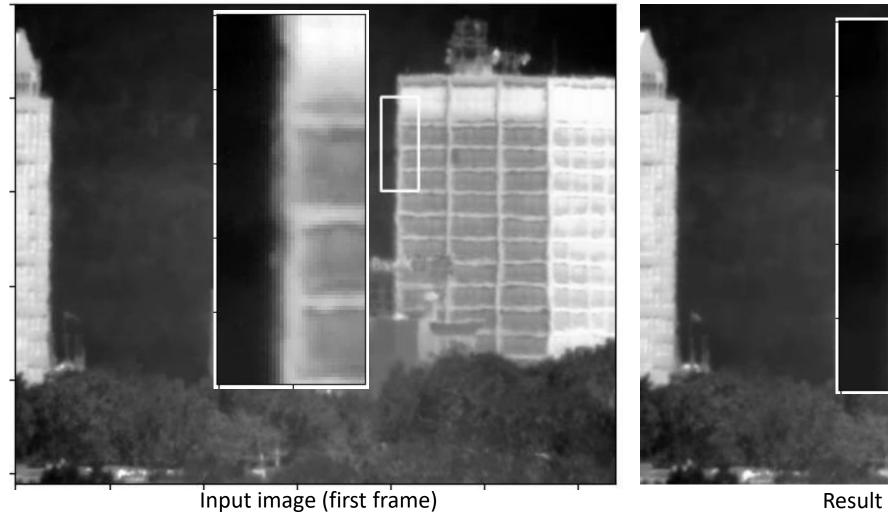
8th frame 7th synthetic image Lucky region



Input image (first frame)

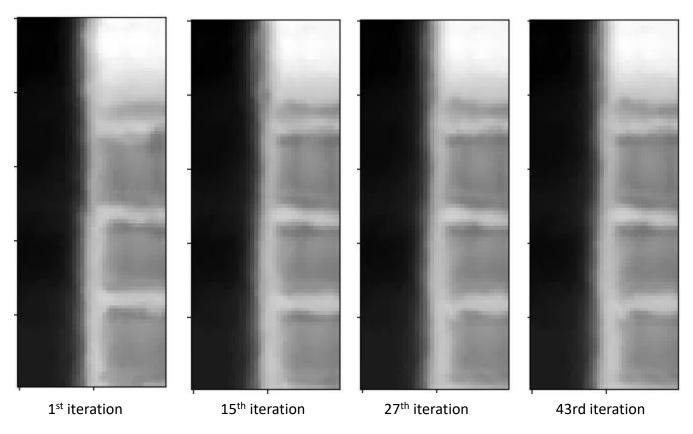


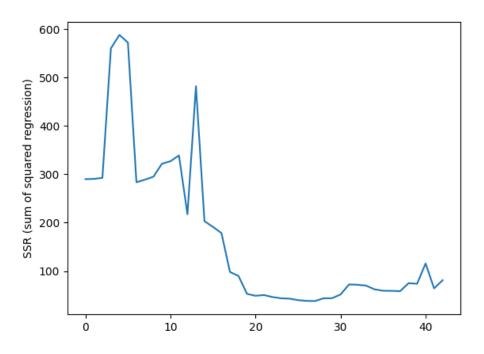
Result of Lucky region fusion

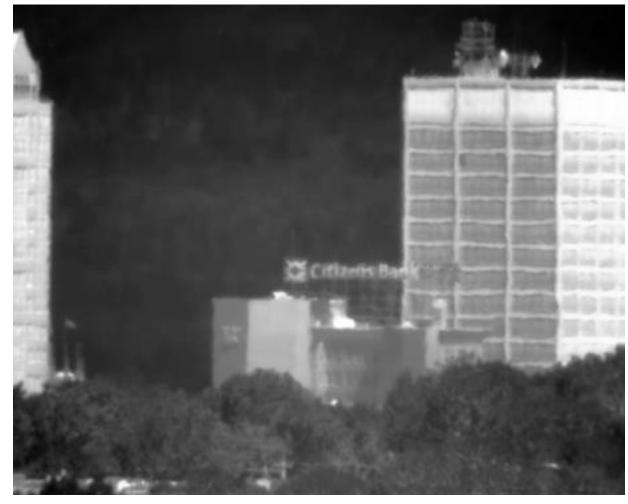


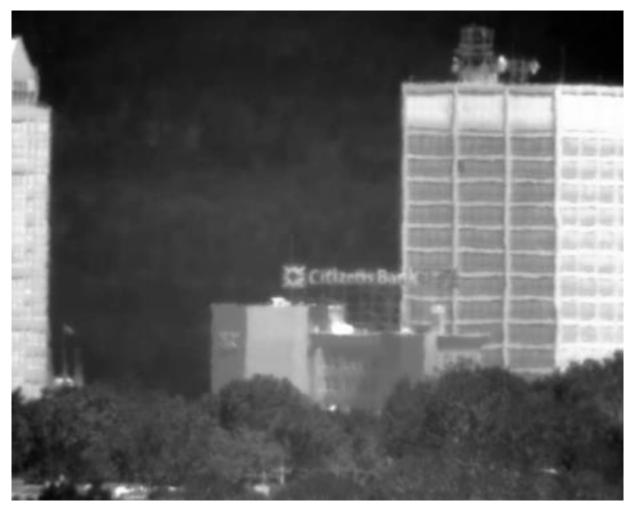
Result after 17 iterations

- Deciding number of iteration
 - Need to stop search process because sharpness bounces back to bad.
 - Stop function :
 - If linearity doesn't improve next 15 iterations after it found the lowest, search processes stopped.

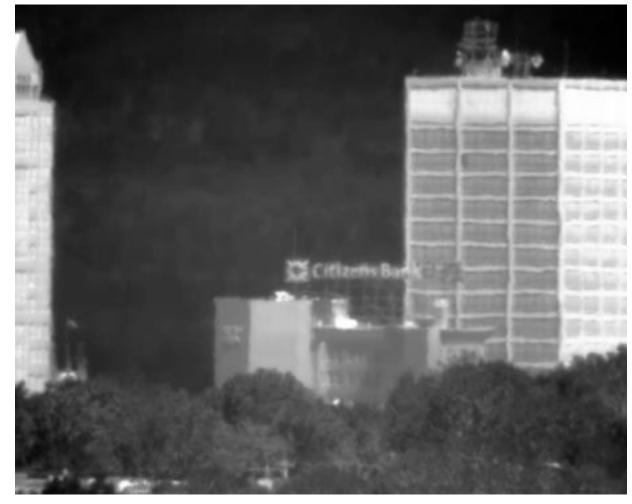


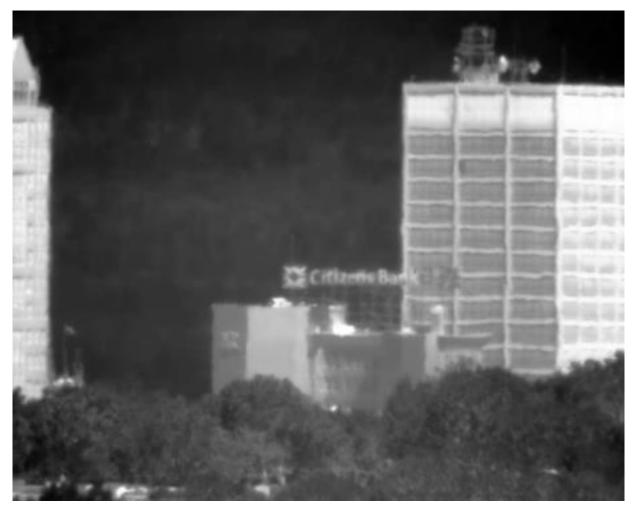






10 iteration 20 iteration





30 iteration 40 iteration