DIGITAL IMAGE PROCESSING (CS 663)

Course Project

Vector-Valued Image Regularization with PDEs: A Common Framework for Different Applications

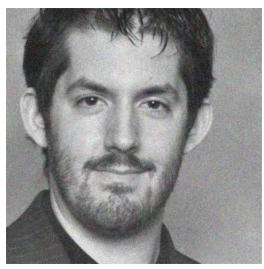
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Applications

Denoising

Noisy





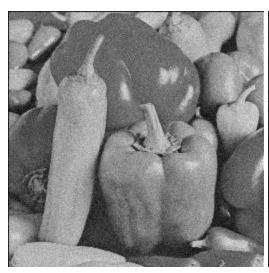
















Inpainting



(run till 200 iterations,20min)

Improvement of lossy compressed images

Compressed

Improved



Observations

- 1. Keeping *t small* and using *large number of iterations* gives a smoother diffusion, which also follows from the theory.
- 2. For large noise images use *large sigma value for the gaussian* for smoothing the structure tensor.