

Projects

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Image Restoration

Images

- Physical quantity (intensity) as a function of positions.
- Can be regarded as 2D (sometimes 3D) signals subject to noise.

Tasks

- Distort the images with motion blur in Fourier domain.
- Apply inverse filters to optimally recover the image
- Add Gaussian noise on top of motion blur
- Implement Wiener filters and observe the trade-offs



original



motion blur



Gaussian noise