Cons of Gaussian smoothing: It blurs everything else, which results in losing the sharpness of images.

Solution: Apply different filters to one image depending on the features of pixels and its surroundings. “Bias” Gaussian Kernel is the one in which the pixels that have different intensity against the center one has lower weight.

Bilateral filter: Add brightness as a bias term. It compares the brightness of two pixels; if the different is small, high weight and low weight if big.

Fourier transform: Represents one function by sum of many ones. It is irreversible

Noise suppression: Weiner deconvolution