EECE 5612 Midterm Project Stav Rones 3.9.2022

The approach taken to denoise this image is to consider the surrounding pixels for every pixel as multiple observation for the value of the center pixel. Since the original image is known to be either signal absent or present with A = 255, the average of the window for each pixel is compared to 255 / 2. The window size was chosen to be 29×29 , which was determined by comparing reconstructed images with different window sizes and picking the one that is most clear, which ultimately is a subjective decision since there is no way to validate the correctness.



