

Locally Adaptive Channel Attention-based Network for Denoising Images

- Additional Examples –
Unknown Noise Level (Blind)



Clean (PSNR/SSIM)



Noisy image with a noise level $\sigma = 10$ (24.68/0.5893)



DnCNN-B [1] (30.96/0.8730)



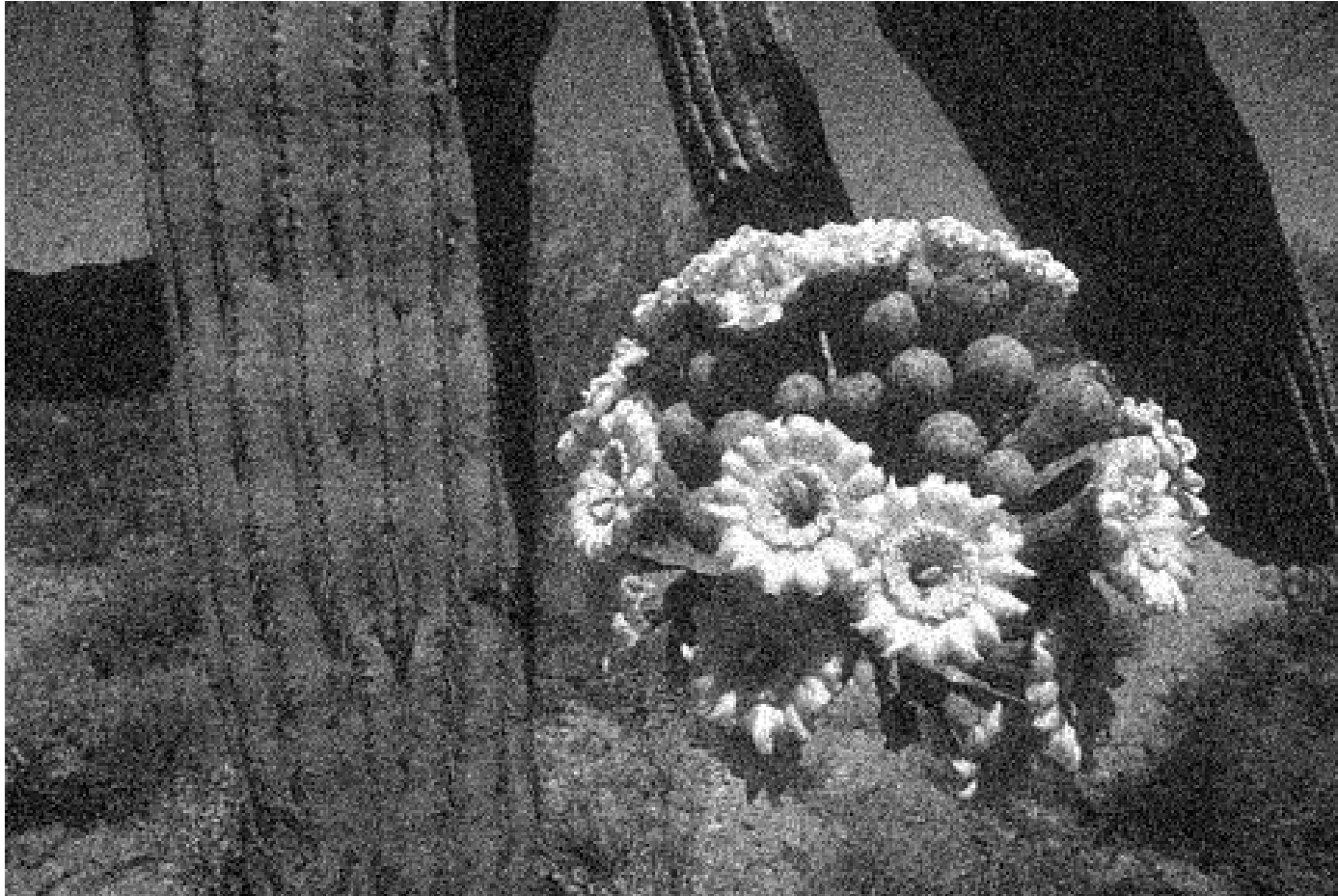
CANDI-B (31.17/0.8759)



LACANDI-B (31.19/0.8801)



Clean (PSNR/SSIM)



Noisy image with a noise level $\sigma = 15$ (22.24/0.4807)



DnCNN-B [1] (29.10/0.8292)



CANDI-B (29.22/0.8339)



LACANDI-B (29.22/0.8358)



Clean (PSNR/SSIM)



Noisy image with a noise level $\sigma = 20$ (28.19/0.6864)



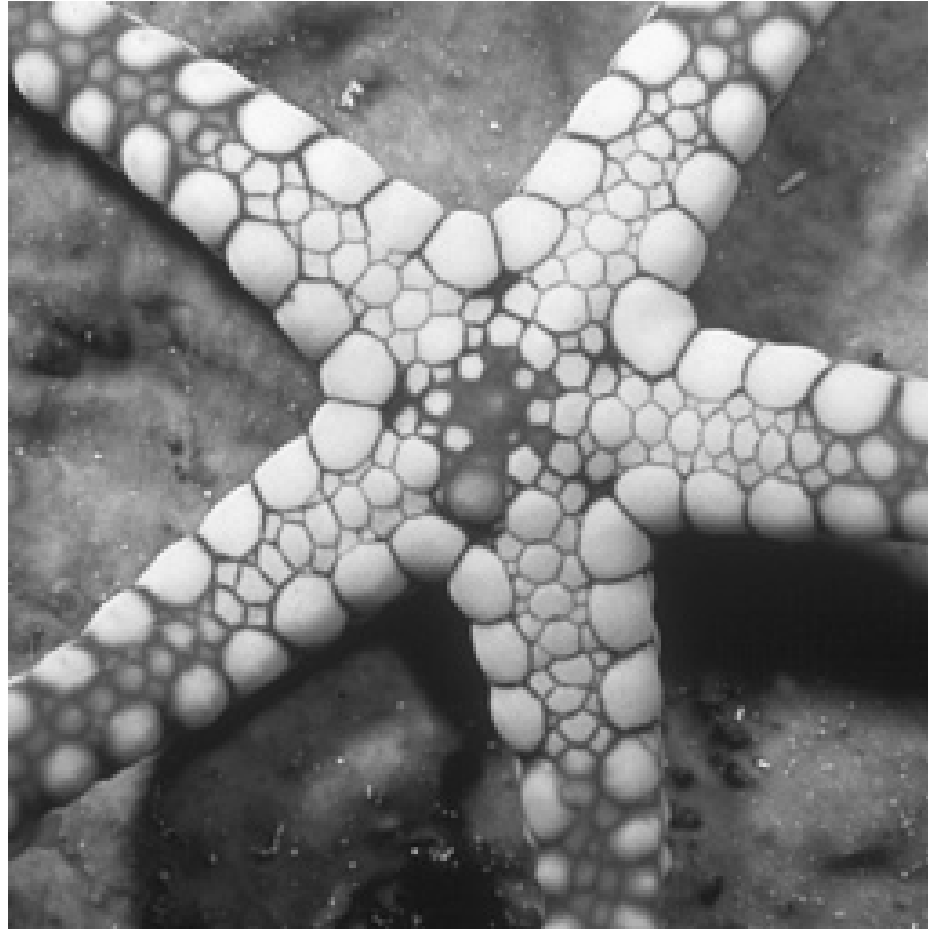
DnCNN-B [1] (33.06/0.9576)



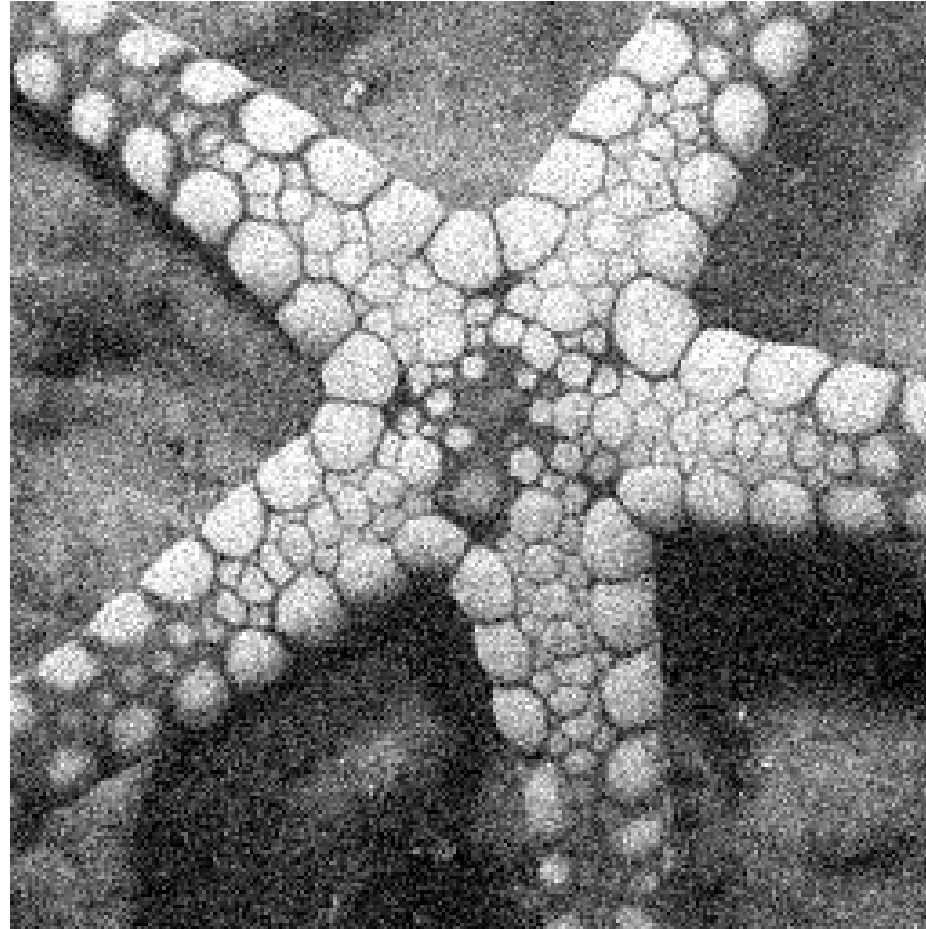
CANDI-B (33.13/0.9584)



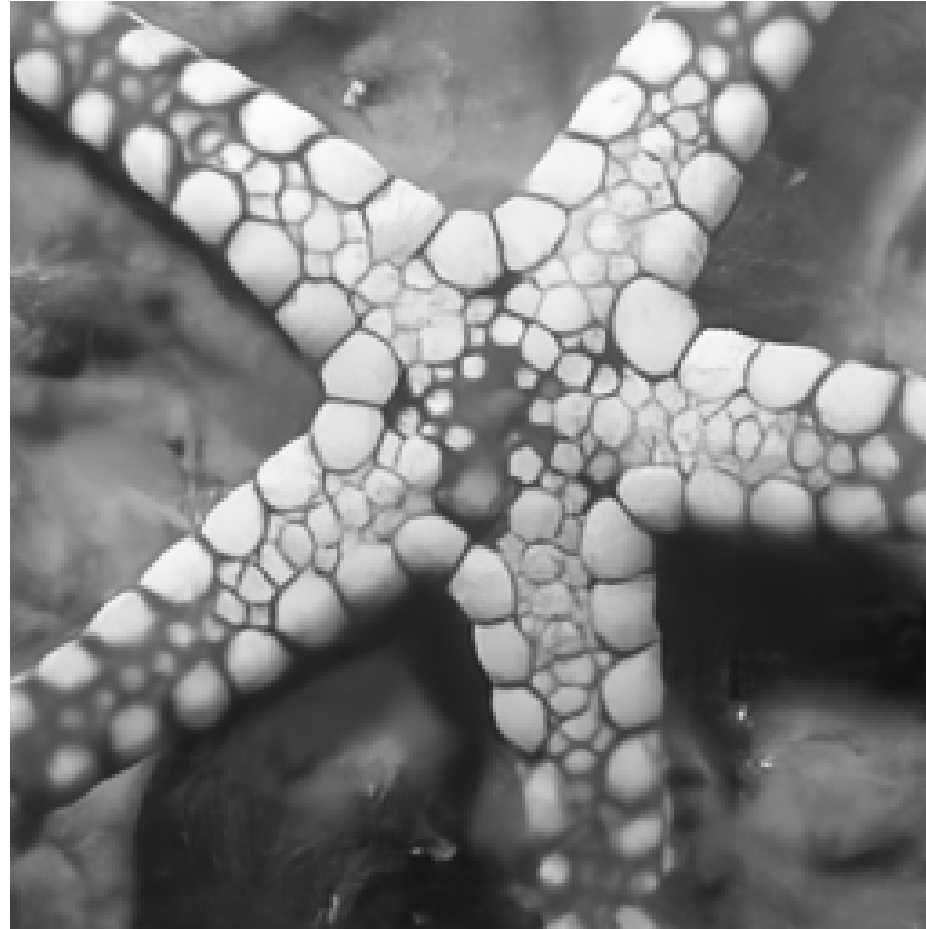
LACANDI-B (33.26/0.9598)



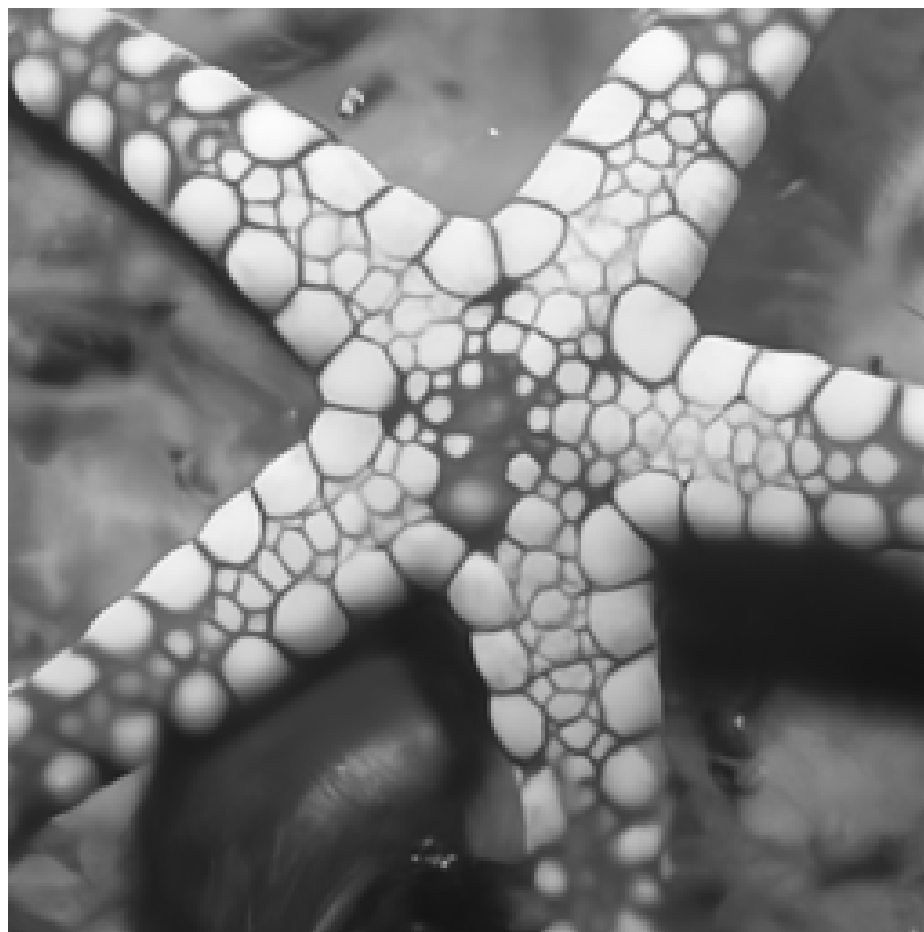
Clean (PSNR/SSIM)



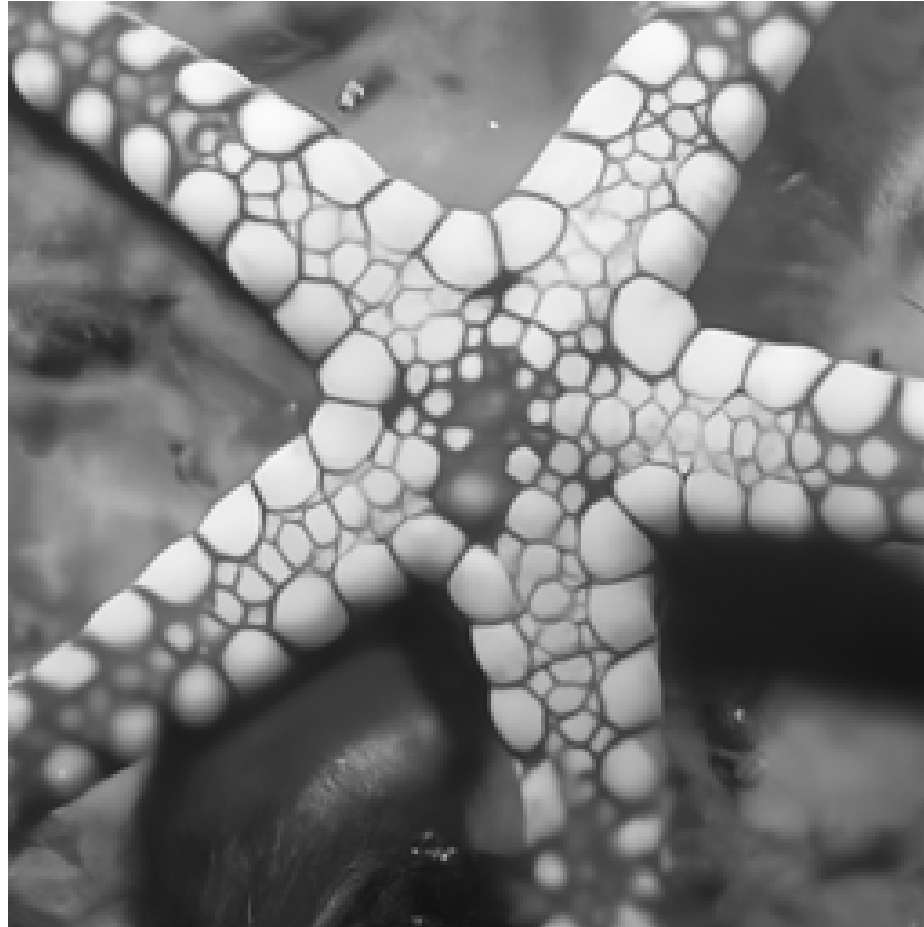
Noisy image with a noise level $\sigma = 25$ (20.38/0.4549)



DnCNN-B [1] (29.34/0.8588)



CANDI-B (29.69/0.8654)



LACANDI-B (29.69/0.8657)



Clean (PSNR/SSIM)



Noisy image with a noise level $\sigma = 30$ (18.73/0.2182)



DnCNN-B [1] (29.76/0.7571)



CANDI-B (29.98/0.7627)



LACANDI-B (29.98/0.7692)



Clean (PSNR/SSIM)



Noisy image with a noise level $\sigma = 40$ (16.78/0.2158)



DnCNN-B [1] (26.73/0.7856)



CANDI-B (26.85/0.7956)



LACANDI-B (26.90/0.7985)



Clean (PSNR/SSIM)



Noisy image with a noise level $\sigma = 50$ (15.07/0.2680)



DnCNN-B [1] (23.17/0.5967)



CANDI-B (23.23/0.6061)



LACANDI-B (23.23/0.6087)

Reference

- [1] K. Zhang, W. Zuo, Y. Chen, D. Meng, and L. Zhang. Beyond a Gaussian denoiser: Residual learning of deep cnn for image denoising. *IEEE Transactions on Image Processing*, 26(7):3142–3155, 2017.