对比方法：

- Cao, L., Li, H., Zhang, Y.: Retinal image enhancement using low-pass filtering and α-rooting. Signal Processing 170, 107445 (2020)
- pix2pix
- CycleGAN
- I-SECRET
- CofeNet
- Li, H., Liu, H., Hu, Y., Higashita, R., Zhao, Y., Qi, H., Liu, J.: Restoration of cataract fundus images via unsupervised domain adaptation. In: 2021 IEEE 18th International Symposium on Biomedical Imaging (ISBI). pp. 516–520. IEEE (2021)
- PCE-Net
- A. Mitra, S. Roy, S. Roy, and S. K. Setua, “Enhancement and restoration of non-uniform illuminated fundus image of retina obtained through thin layer of cataract,” *Computer methods and programs in biomedicine*, vol. 156, pp. 169–178, 2018.
- SGRIF
- Y. Luo, K. Chen, L. Liu, J. Liu, J. Mao, G. Ke, and M. Sun, “Dehaze of cataractous retinal images using an unpaired generative adversarial network,” *IEEE Journal of Biomedical and Health Informatics*, vol. 24, no. 12, pp. 3374–3383, 2020.
- ArcNet
- SCR-Net

评价指标：

- structural similarity (SSIM)
- peak signal to noise ratio (PSNR)
- inception scores (IS)
- natural image quality evaluator (NIQE)
- fundus image quality assessment (FIQA)
- weighted FIQA (WFQA)
- intersection over union (IoU)
- Dice score (DSC)
- F1-score
- Cohen's kappa(Ckappa)

数据集：

- DRIVE
- RCF
- Kaggle
- Fundus-iSee

- EyeQ
- FIQ