README

1. The code mentioned in the doc file is a MATLAB code. It has been developed in MATLAB 2019b.

2. Code A: Image Enhancement Code receives the images from a directory, and then the function brisque() calculates the image quality before and after image enhancement.

3. Code B: It is the basic code for Edge based Texture Histogram Enhancement (ETHE). It is a function that receives the image from Code A and returns an enhanced image back.

4. List of references:

a. Ahmed, I. T., Chen, S. Der and Hammad, B. T. (2016) ‘A Survey of Recent Approaches on No- Reference Image Quality Assessment with Multiscale Geometric Analysis Transforms’, International Journal of Scientific & Engineering Research, 7(12), pp. 1146–1155.

b. Mittal, A., Moorthy, A. K. and Bovik, A. C. (2012) ‘No-reference image quality assessment in the spatial domain’, IEEE Transactions on Image Processing. IEEE, 21(12), pp. 4695–4708. doi: 10.1109/TIP.2012.2214050.

c. Singh, K. et al. (2016) ‘Contrast enhancement via texture region based histogram equalization’, Journal of Modern Optics, 63(15), pp. 1444–1450. doi: 10.1080/09500340.2016.1154194.

d. Wang, Z. and Bovik, A. (2011) ‘Reduced- and No-Reference Image Quality Assessment’, IEEE Signal Processing Magazine, 28(6), pp. 29–40. doi: 10.1109/msp.2011.942471.