**RefinedGT**

Temp = (I - A)/(J - A);

Transmission = np.mean(Temp,2);

Transmission = TransmissionRefine(src2,Transmission);

New = Recover(I,Transmission,A,0.1);

**NonRefinedGT**

Temp = (I - A)/(J - A)

Transmission = np.mean(Temp,2)

New = Recover(I,Transmission,A,0.1);

***(Wrong)Note (Revised below):*** Using min in place of mean for the transition map across the three colour channels was resulting in darker shades in images but loss in case of features and small details as on vase etc. Similarly choosing max will whiten the transition map and the image and hence mean was chosen. Mean loses out on colour.

Advantage of choosing min over mean was that mean does not have continuous colour patches like min does. They break in between. So, in order to smoothen out this effect the pure DCP dehazed image will be averaged out with the answer expelled out by our network.

Show Image 11,14 in NonrefinedGT and RejectedminGT

14 also suggests that for aerial dehazing satellite images or aerial images the mean channel is better. These folders are deleted now. New ATM Light was discovered. Those folders do not tell anything. They are merely trial and error now. Can be generated again for reports using the A1\_old light in the DCP code.

**DCP results (best) with ATM avg method**

This folder contains the images dehazed using Atmospheric light from the DCP 1 and 2 methods averaged out. They are just different implementations of DCP but results drastically improved. The DCP 2 was performing good on images 35 to 45 which are indoor. DCP was good on rest of the outdoor. Hence averaging out all this the blank white portions have reduced drastically. Now this ATM light estimate will be used with the Ground Truth images in the DCP equation to find the Transition map Ground Truths again.

***Revised Note:*** Now since ATM light is newly found I find the evaluation metric I better colored in the min chanel rather than the mean chanel. That’s cause now with new ATM light the transition map is very very well featured. Hence, we don’t need to take the mean for better features anymore. Moreover, visibility in the new targeted ground truth is even more. So take a min for more colors! See Temp2F folders (Temp2Fmin, Temp2Fmax and Temp2F)

I will think about this later because using the ML model anyways I am going to predict the transition map in all three channels. What to do after that I’ll see.

**New Methods for ATM Light Judgement is better. Rank 48!**