Cong , Gui , Zhang , Hou , Shen Nighttime Dehazing Baseline with Spatial-Frequency Aware and Realistic Brightness Constraint

What is the problem?

The paper introduces a method aimed at improving the clarity of nighttime images that are affected by the haze.

What has been done earlier?

Earlier methods for nighttime dehazing used APSF-guided glow rendering and gradient adaptive convolution and NightHazeFormer: Single Nighttime Haze Removal techniques which failed to deal with:

- Localized,Coupled and Frequency Inconsistency.
- Unrealistic Brightness Intensity.

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- In case of extreme haze or intense light from bright light sources,the model struggles to restore clear images.
- If the input image has extremely low level of illumination,such that it is entirely dark,the model fails to produce accurate output.