

## **76. IMAGE DEFOGGING BASED ON CONTRAST ENHANCEMENT AND TURBULENCE MITIGATION**

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The general problem for imaging in the atmosphere is the appearance of fog and also the appearance of atmospheric turbulence in the images. Till now, they are many researchers are available to provide a recovery for either the fog or turbulence in the image. Additionally, many methods have been proposed by other researchers that address the atmospheric turbulence problem. But they did not recover both the problem at the same time. But in my project I provided an analysis that incorporates both models such as Fog removal and Turbulence mitigation. At last this contrast enhancement and turbulence mitigation algorithm is more efficient so that it can operate in fractions of second for the real-time applications while imaging. **KEYWORDS:** Single Image Defogging, Image alignment, Dehazing, Deblurring, Turbulence Mitigation, Contrast Enhancement.

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