IVA VIDEO PRESENTATION
LOW LIGHT IMAGE ENHANCEMENT

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Why Low Light Image Enhancement?

- The aim of low light video enhancement is to improve the visual appearance of a video, or to provide a "better transform representation for future automated video processing.
- Many videos like medical videos, satellite videos, aerial videos and even real life photographs suffer from low light contrast and noise.
- It is necessary to enhance the contrast and remove the noise to increase image quality.
- Low Light enhancement techniques which improves the quality (clarity) of images for human viewing, removing blurring and noise, increasing contrast, and revealing details are examples of enhancement operations.

Objective

- Video plays an important role in this present technological world and leads to progress in multimedia communication, various research fields related to video processing, etc. Low-light video enhancement specifically addresses video captured in low-light conditions such as nighttime, where the common goal is to brighten and improve the contrast of the video for better visual quality and show details that are hidden in darkness.

MIRNet modul

- With the goal of recovering high-quality image content from its degraded version, image restoration enjoys numerous applications, such as in photography, security, medical imaging, and remote sensing. In this example, we implement the **MIRNet** model for low-light image enhancement, a fully-convolutional architecture that learns an enriched set of features that combines contextual information from multiple scales, while simultaneously preserving the high-resolution spatial details.

THANK YOU