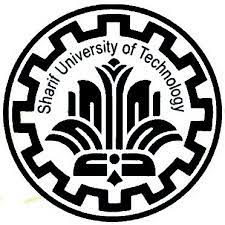
In the Name of God



Machine Learning and Vision Lab

8th Lab

Pre report

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* Bonus

As you know in pyramid an image is successively down-sampled to create a series of images at different resolutions, forming a pyramid structure. Each level of the pyramid represents the same scene but at different scales.

The pyramid-based approach is often implemented using techniques like the Lucas-Kanade method with pyramids or the Farneback method, which uses a polynomial expansion of the image and calculates optical flow at multiple scales. Optical flow with pyramid is a technique that leverages multi-resolution representations to estimate motion in images, providing scale-invariant, efficient, and robust results.