

Image Formation

Computer Vision: AI3619

Image Formation and Optics

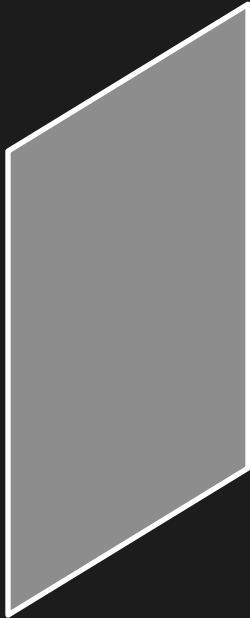
Image: Projection of 3D scene onto 2D plane.

We need to understand **Geometric** and **Radiometric** relations between the scene and its image.

Topics:

- (1) Pinhole and Perspective Projection
- (2) Vanishing Point
- (3) Image formation using Lenses
- (4) Lens Related Issues

Image Formation



Screen



Scene

Is an image being formed on the screen?

Yes! But not a "clear" one.