

CLOs for image processing

CLO No.	Course Learning Outcome (CLO)	Key topic
CLO1	Classify digital image types (binary, grayscale, RGB) and compute intensity transformations using histogram equalization and power-law transforms.	Digital Fundamentals, Intensity Transformations
CLO2	Implement spatial convolution filters (Gaussian, Laplacian) and demonstrate morphological operations (erosion, dilation) using structuring elements.	Spatial Filtering, Morphological Operations
CLO3	Compare global vs adaptive thresholding methods and recommend optimal segmentation approaches for given image characteristics	Segmentation, Thresholding
CLO4	Design geometric transformations (affine, perspective) using interpolation and extract features from real images.	Geometric Operations, Feature Extraction
CLO5	Analyze compression ratios vs quality metrics and optimize parameters for compression schemes.	Image Compression