

Digital Image Processing

Course Outcome:

1. Explain the concept of Image Processing and its applications in various fields.
2. Identify and describe the components of an Image Processing system.
3. Understand the process of Image digitization and its importance in Image Processing.
4. Apply Spatial Domain Image Transformation techniques such as Contrast intensification and Noise cleaning using various methods.
5. Implement Frequency Domain Image Transformation techniques including Low Pass and High Pass Filters.
6. Utilize Colour Image Processing techniques like Pseudo and False colouring, and Image fusion.
7. Describe different Colour Models such as RGB, CMY, and HSI.
8. Understand Image Compression techniques including Lossy and Lossless compression methods like Huffman coding and JPEG.
9. Analyze Image Pattern Representation and Recognition methods including Boundary Descriptors and Recognition based on decision theoretic methods.
10. Apply structural methods for Image Pattern Representation and Recognition.

Select Language 

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