

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Electronics and Communication Engineering - NOC:Digital Image Processing

Subject Co-ordinator - Prof. P.K. Biswas

Co-ordinating Institute - IIT - Kharagpur

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Introduction to Digital Image Processing
Lecture 2 - Application of Digital Image Processing
Lecture 3 - Image Digitalization, Sampling Quantization and Display
Lecture 4 - Signal Reconstruction from Samples
Lecture 5 - Signal Reconstruction from Image
Lecture 6 - Quantizer Design
Lecture 7 - Relationship between Pixels
Lecture 8 - Relationship of Adjacency and Connected Components Labeling
Lecture 9 - Application of Distance Measures
Lecture 10 - Basic Transform
Lecture 11 - Image Formation - I
Lecture 12 - Image Formation - II
Lecture 13 - Image Geometry - I
Lecture 14 - Image Geometry - II
Lecture 15 - Stereo Imaging Model - II
Lecture 16 - Interpolation and Resampling
Lecture 17 - Interpolation Techniques
Lecture 18 - Interpolation with examples - I
Lecture 19 - Interpolation with Examples - II
Lecture 20 - Image Transformation - I Edit Lesson
Lecture 21 - Image Transformation - 2
Lecture 22 - Separable Transformation
Lecture 23 - Basis Images
Lecture 24 - Fourier Transformation
Lecture 25 - Properties of FT
Lecture 26 - FT Result Display - 2
Lecture 27 - Rotation Invariance Property
Lecture 28 - DCT and Walsh Transform
Lecture 29 - Handmard Transformation

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- Lecture 30 - Histogram Equalization and Specifications - I
- Lecture 31 - KL-transform-2
- Lecture 32 - Image Enhancement
- Lecture 33 - Contrast Stretching Operation
- Lecture 34 - Histogram Equalization and Specification - I
- Lecture 35 - Histogram Equalization and Specification - II
- Lecture 36 - Histogram Implementation - I
- Lecture 37 - Histogram Implementation - II
- Lecture 38 - Image Enhancement
- Lecture 39 - Image Enhancement
- Lecture 40 - Image Enhancement
- Lecture 41 - Frequency Domain Processing Techniques
- Lecture 42 - Image Restoration Techniques - I
- Lecture 43 - Image Restoration Techniques - II
- Lecture 44 - Estimation of Degradation Model and Restoration Techniques - I
- Lecture 45 - Estimation of Degradation Model and Restoration Techniques - II
- Lecture 46 - Other Restoration Techniques - I
- Lecture 47 - Other Restoration Techniques - II
- Lecture 48 - Image Registration - I
- Lecture 49 - Image Registration - II
- Lecture 50 - Colour Image Processing
- Lecture 51 - Colour Model
- Lecture 52 - Conversion of one color model to another - I
- Lecture 53 - Conversion of one color model to another - II
- Lecture 54 - Pseudo color image processing
- Lecture 55 - Full color image processing
- Lecture 56 - Different Approaches for Image Segmentation
- Lecture 57 - Image Segmentation
- Lecture 58 - Region based Segmentation Operation. Thresholding Techniques
- Lecture 59 - Region Splitting and Merging Technique Edit Lesson