

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

NPTEL Video Course - Electronics and Communication Engineering - 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
- Lecture 2 - Image Digitization - I
- Lecture 3 - Image Digitization - II
- Lecture 4 - Pixels Relationships - I
- Lecture 5 - Pixels Relationships - II
- Lecture 6 - Basic Transformations
- Lecture 7 - Camera Model and Imaging Geometry
- Lecture 8 - Camera Calibration and Stereo Imaging
- Lecture 9 - Interpolation and Resampling
- Lecture 10 - Image Interpolation - II
- Lecture 11 - Image Interpolation - I
- Lecture 12 - Image Transformation - II
- Lecture 13 - Fourier Transformation - I
- Lecture 14 - Fourier Transformation - II
- Lecture 15 - Discrete Cosine Transform
- Lecture 16 - K-L Transform
- Lecture 17 - Image Enhancement
- Lecture 18 - Image Enhancement
- Lecture 19 - Image Enhancement
- Lecture 20 - Image Enhancement
- Lecture 21 - Image Enhancement Frequency
- Lecture 22 - Image Restoration - I
- Lecture 23 - Image Restoration - II
- Lecture 24 - Image Restoration - III
- Lecture 25 - Image Registration
- Lecture 26 - Colour Image Processing - I
- Lecture 27 - Colour Image Processing - II
- Lecture 28 - Colour Image Processing - III
- Lecture 29 - Image Segmentation - I

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- Lecture 30 - Image Segmentation - II
- Lecture 31 - Image Segmentation - III
- Lecture 32 - Image Segmentation - IV
- Lecture 33 - Mathematical Morphology - I
- Lecture 34 - Mathematical Morphology - II
- Lecture 35 - Mathematical Morphology - III
- Lecture 36 - Mathematical Morphology - IV
- Lecture 37 - Object Representation and Description - I
- Lecture 38 - Object Representation and Description - II
- Lecture 39 - Object Representation and Description - III
- Lecture 40 - Object Recognition