

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

NPTEL Video Course - Electrical Engineering - NOC:Computer Vision and Image Processing - Fundamentals and App

Subject Co-ordinator - Prof. M. K. Bhuyan

Co-ordinating Institute - IIT - Guwahati

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

Lecture 1 - Introduction to Digital Image Processing
Lecture 2 - Introduction to Computer Vision
Lecture 3 - Introduction to Computer Vision and Basic Concepts of Image Formation
Lecture 4 - Shape From Shading
Lecture 5 - Image Formation: Geometric Camera Models - I
Lecture 6 - Image Formation: Geometric Camera Models - II
Lecture 7 - Image Formation: Geometric Camera Models - III
Lecture 8 - Image Formation in a Stereo Vision Setup
Lecture 9 - Image Reconstruction from a Series of Projections
Lecture 10 - Image Reconstruction from a Series of Projections
Lecture 11 - Image Transforms - I
Lecture 12 - Image Transforms - II
Lecture 13 - Image Transforms - III
Lecture 14 - Image Transforms - IV
Lecture 15 - Image Enhancement
Lecture 16 - Image Filtering - I
Lecture 17 - Image Filtering - II
Lecture 18 - Colour Image Processing - I
Lecture 19 - Colour Image Processing - II
Lecture 20 - Image Segmentation
Lecture 21 - Image Features and Edge Detection
Lecture 22 - Edge Detection
Lecture 23 - Hough Transform
Lecture 24 - Image Texture Analysis - I
Lecture 25 - Image Texture Analysis - II
Lecture 26 - Object Boundary and Shape Representations - I
Lecture 27 - Object Boundary and Shape Representations - II
Lecture 28 - Interest Point Detectors
Lecture 29 - Image Features - HOG and SIFT

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- Lecture 30 - Introduction to Machine Learning - I
- Lecture 31 - Introduction to Machine Learning - II
- Lecture 32 - Introduction to Machine Learning - III
- Lecture 33 - Introduction to Machine Learning - IV
- Lecture 34 - Introduction to Machine Learning - V
- Lecture 35 - Artificial Neural Network for Pattern Classification - I
- Lecture 36 - Artificial Neural Network for Pattern Classification - II
- Lecture 37 - Introduction to Deep Learning
- Lecture 38 - Gesture Recognition
- Lecture 39 - Background Modelling and Motion Estimation
- Lecture 40 - Object Tracking
- Lecture 41 - Programming Examples