

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

NPTEL Video Course - Special Lecture Series - ACM Summer School on Shape Modelling

Subject Co-ordinator - Aditya Tatu

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Linear Algebra and Optimization - 1  
Lecture 2 - Linear Algebra and Optimization - 2  
Lecture 3 - Linear Algebra and Optimization - 3  
Lecture 4 - Linear Algebra and Optimization - 4  
Lecture 5 - Curvature - Part 1  
Lecture 6 - Curvature - Part 2  
Lecture 7 - Curvature - Part 3  
Lecture 8 - Introduction To Parametric Curves and Surfaces - 1  
Lecture 9 - Introduction To Parametric Curves and Surfaces - 2  
Lecture 10 - Introduction To Parametric Curves and Surfaces - 3  
Lecture 11 - Introduction To Parametric Curves and Surfaces - 4  
Lecture 12 - Introduction To Parametric Curves and Surfaces - 5  
Lecture 13 - Introduction To Parametric Curves and Surfaces - 6  
Lecture 14 - Introduction To Parametric Curves and Surfaces - 7  
Lecture 15 - Introduction To Parametric Curves and Surfaces - 8  
Lecture 16 - Introduction To Parametric Curves and Surfaces - 9  
Lecture 17 - Implicit Surfaces - Part 1  
Lecture 18 - Implicit Surfaces - Part 2  
Lecture 19 - Implicit Surfaces - Part 3  
Lecture 20 - MeshLab - Part 1  
Lecture 21 - MeshLab - Part 2  
Lecture 22 - MeshLab - Part 3  
Lecture 23 - MeshLab - Part 4  
Lecture 24 - Discrete Surface - Part 1  
Lecture 25 - Discrete Surface - Part 2  
Lecture 26 - Discrete Surface - Part 3  
Lecture 27 - Discrete Surface - Part 4  
Lecture 28 - Discrete Surface - Part 5  
Lecture 29 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 1

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- Lecture 30 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 2
- Lecture 31 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 3
- Lecture 32 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 4
- Lecture 33 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 5
- Lecture 34 - Laplace Beltrami on Manifolds and Meshes with Applications - Part 6
- Lecture 35 - Internal Digital R and I - Part 1
- Lecture 36 - Internal Digital R and I - Part 2
- Lecture 37 - Internal Digital R and I - Part 3
- Lecture 38 - Rigid and Non rigid Shape Matching - Part 1
- Lecture 39 - Rigid and Non rigid Shape Matching - Part 2
- Lecture 40 - Rigid and Non rigid Shape Matching - Part 3
- Lecture 41 - Rigid and Non rigid Shape Matching - Part 4
- Lecture 42 - Geometric Deep Learning - Part 1
- Lecture 43 - Geometric Deep Learning - Part 2
- Lecture 44 - Geometric Deep Learning - Part 3
- Lecture 45 - Geometric Deep Learning - Part 4
- Lecture 46 - Geometric Deep Learning - Part 5
- Lecture 47 - Geometric Deep Learning - Frame Works
- Lecture 48 - Geometric Deep Learning - Lab 1
- Lecture 49 - Geometric Deep Learning - Lab 2
- Lecture 50 - Geometric Deep Learning - Lab 3