

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

NPTEL Video Course - Electrical Engineering - NOC: Intelligent Control of Robotic Systems

Subject Co-ordinator - Prof. M. Felix Orlando

Co-ordinating Institute - IIT - Roorkee

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

- Lecture 1 - Robotics: Primer-Robot Anatomy and Terminology
- Lecture 2 - Robotics: Primer-Kinematics and Dynamics
- Lecture 3 - Back Stepping Control
- Lecture 4 - Feedback Linearization
- Lecture 5 - Lyapunov Stability
- Lecture 6 - Introduction to Fuzzy Logic
- Lecture 7 - Fuzzy Relations and Rule Base
- Lecture 8 - Fuzzy Logic Control - I
- Lecture 9 - Fuzzy Logic Control - II
- Lecture 10 - T-S Fuzzy
- Lecture 11 - Neural Network based Robot Control
- Lecture 12 - Neural Adaptive Control of Robotics Systems
- Lecture 13 - Neural Network based Feedback Linearization
- Lecture 14 - Robust RBFN
- Lecture 15 - NN based Hybrid Force/Position Control of Robot Manipulator
- Lecture 16 - Introduction to Reinforcement Learning
- Lecture 17 - Introduction to Search Methods
- Lecture 18 - Introduction to Path Planning
- Lecture 19 - Sampling based Path Planning Methods
- Lecture 20 - Path Planning of Robotic Needle

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