

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

NPTEL Video Course - Electrical Engineering - NOC:Advanced IOT Applications

Subject Co-ordinator - Prof. T V Prabhakar

Co-ordinating Institute - IISc - Bangalore

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

Lecture 1 - Overview of localization using IoT sensors
Lecture 2 - Outdoor localization without GPS - I
Lecture 3 - Outdoor localization without GPS - II
Lecture 4 - Outdoor localization using elevation - pressure mapping
Lecture 5 - Localization using IMU sensors - I
Lecture 6 - Localization using IMU sensors - II
Lecture 7 - Localization using IMU sensors - III
Lecture 8 - RFID based localization - I
Lecture 9 - RFID based localization - II
Lecture 10 - Simulation of simple algorithms for object detection
Lecture 11 - Building smart vehicle for collision avoidance
Lecture 12 - Basic computer vision algorithms - Part 1
Lecture 13 - Basic computer vision algorithms - Part 2
Lecture 14 - Code walkthrough of computer vision algorithm
Lecture 15 - Introduction to LiDAR
Lecture 16 - Range estimation and Obstacle avoidance
Lecture 17 - Introduction to vehicle platooning
Lecture 18 - Building blocks for autonomous vehicles - 1
Lecture 19 - Building blocks for autonomous vehicles - 2
Lecture 20 - On Board Diagnostics and protocols
Lecture 21 - Diagnostic services and fuel-injection ratio control unit
Lecture 22 - Real time event processing and Anomaly detection
Lecture 23 - OBD-II and stream processing demonstration
Lecture 24 - Speech recognition - Part 1
Lecture 25 - Speech recognition - Part 2
Lecture 26 - Speech recognition - Part 3
Lecture 27 - Speech recognition - Part 4
Lecture 28 - Device Security - Part 1
Lecture 29 - Device Security - Part 2

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- Lecture 30 - Device Security - Part 3
- Lecture 31 - Need for air quality monitoring
- Lecture 32 - Air quality
- Lecture 33 - Introduction to air quality sensors
- Lecture 34 - Calibration techniques for IoT air quality sensors
- Lecture 35 - Sensor types
- Lecture 36 - Air quality
- Lecture 37 - Air quality
- Lecture 38 - Air quality
- Lecture 39 - Air quality
- Lecture 40 - Introduction to First Responder networks
- Lecture 41 - First Responders - Applications - Part 1
- Lecture 42 - First Responders - Applications - Part 2
- Lecture 43 - Cargo monitoring for tamper detection - Part 1
- Lecture 44 - Cargo monitoring for tamper detection - Part 2