

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

NPTEL Video Course - Computer Science and Engineering - NOC:Foundations of Cyber Physical Systems

Subject Co-ordinator - Prof. Soumyajit Dey

Co-ordinating Institute - IIT - Kharagpur

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

- Lecture 1 - CPS: Motivational examples and compute platforms
- Lecture 2 - CPS: Motivational examples and compute platforms (Continued...)
- Lecture 3 - CPS: Motivational examples and compute platforms (Continued...)
- Lecture 4 - CPS: Motivational examples and compute platforms (Continued...)
- Lecture 5 - CPS: Motivational examples and compute platforms (Continued...)
- Lecture 6 - Real time sensing and communication for CPS
- Lecture 7 - Real time sensing and communication for CPS (Continued...)
- Lecture 8 - Real time sensing and communication for CPS (Continued...)
- Lecture 9 - Real time sensing and communication for CPS (Continued...)
- Lecture 10 - Real time task scheduling for CPS
- Lecture 11 - Real time task scheduling for CPS (Continued...)
- Lecture 12 - Real time task scheduling for CPS (Continued...)
- Lecture 13 - Real time task scheduling for CPS (Continued...)
- Lecture 14 - Real time task scheduling for CPS (Continued...)
- Lecture 15 - Real time task scheduling for CPS (Continued...)
- Lecture 16 - Real time task scheduling for CPS (Continued...)
- Lecture 17 - Real time task scheduling for CPS (Continued...)
- Lecture 18 - Dynamical system modeling, stability, controller design
- Lecture 19 - Dynamical system modeling, stability, controller design (Continued...)
- Lecture 20 - Dynamical system modeling, stability, controller design (Continued...)
- Lecture 21 - Dynamical system modeling, stability, controller design (Continued...)
- Lecture 22 - Dynamical system modeling, stability, controller design (Continued...)
- Lecture 23 - Dynamical system modeling, stability, controller design (Continued...)
- Lecture 24 - Delay-aware Design; Platform effect on Stability/Performance
- Lecture 25 - Delay-aware Design; Platform effect on Stability/Performance (Continued...)
- Lecture 26 - Delay-aware Design; Platform effect on Stability/Performance (Continued...)
- Lecture 27 - Delay-aware Design; Platform effect on Stability/Performance (Continued...) Corrigendum
- Lecture 28 - Hybrid Automata based modelling of CPS
- Lecture 29 - Hybrid Automata based modelling of CPS (Continued...)

Get DIGIMAT For High-Speed Video Streaming of NPTEL and Educational Video Courses in LAN

<http://www.digimat.in>

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

- Lecture 30 - Hybrid Automata based modelling of CPS (Continued...)
- Lecture 31 - Hybrid Automata based modelling of CPS (Continued...)
- Lecture 32 - Hybrid Automata based modelling of CPS (Continued...)
- Lecture 33 - Reachability analysis
- Lecture 34 - Reachability analysis (Continued...)
- Lecture 35 - Reachability analysis (Continued...)
- Lecture 36 - Reachability analysis (Continued...)
- Lecture 37 - Lyapunov Stability, Barrier Functions
- Lecture 38 - Lyapunov Stability, Barrier Functions (Continued...)
- Lecture 39 - Lyapunov Stability, Barrier Functions (Continued...)
- Lecture 40 - Lyapunov Stability, Barrier Functions (Continued...)
- Lecture 41 - Lyapunov Stability, Barrier Functions (Continued...)
- Lecture 42 - Lyapunov Stability, Barrier Functions (Continued...)
- Lecture 43 - Quadratic Program based safe Controller Design
- Lecture 44 - Quadratic Program based safe Controller Design (Continued...)
- Lecture 45 - Quadratic Program based safe Controller Design (Continued...)
- Lecture 46 - Quadratic Program based safe Controller Design (Continued...)
- Lecture 47 - Neural Network (NN) Based controllers in CPS
- Lecture 48 - Neural Network (NN) Based controllers in CPS (Continued...)
- Lecture 49 - Neural Network (NN) Based controllers in CPS (Continued...)
- Lecture 50 - State Estimation using Kalman Filters (KF)
- Lecture 51 - State Estimation using Kalman Filters (KF) (Continued...)
- Lecture 52 - Attack Detection and Mitigation in CPS
- Lecture 53 - Attack Detection and Mitigation in CPS (Continued...)
- Lecture 54 - Attack Detection and Mitigation in CPS (Continued...)
- Lecture 55 - Attack Detection and Mitigation in CPS (Continued...)
- Lecture 56 - Attack Detection and Mitigation in CPS (Continued...)
- Lecture 57 - Attack Detection and Mitigation in CPS (Continued...)
- Lecture 58 - Attack Detection and Mitigation in CPS (Continued...)
- Lecture 59 - Attack Detection and Mitigation in CPS (Continued...)