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Robust Adaptive MPC for High-Accuracy Trajectory Tracking in Changing Conditions "This video demonstrates a new approach to achieve high-accuracy trajectory tracking in changing conditions. The approach ...

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Robust Obstacle Avoidance using Adaptive Model Predictive Control

A quadrotor avoids an obstacle detected at run-time while flying at 4m/s. Dynamical parameters of the system are estimated using ...

Model Predictive Control This lecture provides an overview of **model predictive control (MPC)**, which is one of the most powerful and general control ...

Understanding Model Predictive Control, Part 7: Adaptive MPC Design with Simulink In this video, you will learn how to design an adaptive MPC controller for an autonomous steering vehicle system whose ...

Robust obstacle avoidance using Adaptive Model Predictive Control The video shows a quadrotor avoiding virtual obstacles using **robust** obstacle avoidance technique. The quadrotor stays within a ...

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Model Reference Adaptive Control Fundamentals (Dr. Tansel Yucelen)

Forum on Robotics & Control Engineering (FoRCE, <http://force.eng.usf.edu/>) Seminar Series: "**Model Reference Adaptive Control** ...

Robust Predictive Flight Control This video accompanies the ECC 2014 Paper: K. Alexis, C. Papachristos, R. Siegwart, A. Tzes, "**Robust Explicit Model Predictive** ...

Understanding Model Predictive Control, Part 4: Adaptive, Gain-Scheduled and Nonlinear MPC This video explains the type of **MPC** controller you can use based on your plant model, constraints, and cost function. - Model ...

Why Adaptive Control? Why do you need an **adaptive** controller? What are the advantages of **adaptive** controllers over fixed-gain **robust** controllers?

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Control Bootcamp: Introduction to Robust Control

This video motivates **robust** control with the famous 1978 paper by John Doyle, titled "Guaranteed Margins for LQG Regulators".

Proposal : Robust Model Predictive Control and Observer for Direct Drive Applications

Linear Control System II by Soravit Wungseesiripetch
5730617221 Supakan Yingyoaud
5730595021 Satayu Chunnawong ...

Adaptive Control demo A

neuromorphic **adaptive** controller built by Applied Brain Research. The controller is able to drive a JACO² robotic arm to reach ...

Understanding Kalman Filters, Part 1: Why Use Kalman Filters?

Discover common uses of Kalman filters by walking through some examples. A Kalman filter is an optimal estimation algorithm ...

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Understanding PID Control, Part 1:

What is PID Control? Explore the fundamentals behind PID control.

- Download Code Examples to Learn How to Automatically Tune PID Controller ...

Understanding Model Predictive Control, Part 1: Why Use MPC? Learn about the benefits of using model predictive control (MPC).

- Model Predictive Control Toolbox:
<http://bit.ly/2xgwWvN> ...

Learning Based MPC on a Quadrotor
Learning Based **Model Predictive Control** (LBMPC) identifies physical phenomena like the ground effect and uses this to refine ...

Robust Adaptive Control for Safety Critical Systems While **adaptive** control has been used in numerous applications to achieve system performance without excessive reliance on ...

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Adaptive Real-time Nonlinear Model Predictive Motion Control

Illustration of our **adaptive**, real-time, nonlinear **model predictive** motion control framework on the ball balancing robot ("ballbot") ...

Safe and Efficient Adaptive-Predictive Control of Constrained Nonlinear Systems As autonomous systems are deployed in increasingly complex and uncertain environments, safe and accurate feedback control ...

Nonlinear Model Predictive Control for Multi-Micro Aerial Vehicle Robust Collision Avoidance In this video a Nonlinear **Model Predictive Control** is employed on Micro Aerial Vehicle to perform reference trajectory tracking and ...

Robust Sampling Based Model Predictive Control with Sparse Objective Information Results presented at RSS 2018, for all results the

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AutoRally platform operates autonomously using only onboard sensing and ...

Robust Self Triggered Image Based Visual Servoing Model Predictive Control Scheme As it is well known, a real time visual servoing task which employs a Visual Tracking Algorithm (VTA), imposes into the robotic ...

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