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Nonlinear Optimization for Optimal Control Pieter Abbeel UC Berkeley EECS Many slides and figures adapted from Stephen Boyd [optional] Boyd and Vandenberghe, Convex Optimization, Chapters 9 – 11 [optional] Betts, Practical Methods for Optimal Control Using Nonlinear Programming TexPoint fonts used in EMF.

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NONLINEAR AND OPTIMAL CONTROL THEORY Lectures given at the C.I.M.E. Summer School held in Cetraro, Italy, June 19-29, 2004 Editors: P. Nistri and G. Stefani Springer Berlin Heidelberg NewYork HongKong London Milan Paris Tokyo

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NONLINEAR OPTIMAL CONTROL: A CONTROL LYAPUNOV FUNCTION AND

Richard Bellman, optimal control theory was popularized in the 1960s. The aim of this PhD thesis is to enable engineers to find optimal control solutions for nonlinear systems in a less time-consuming and more automatic manner than with previous approaches. Finding an optimal control for a broad range of problems is not a simple task.

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NONLINEAR PROGRAMMING AND OPTIMAL CONTROL Pravin Pratap Varaiya ABSTRACT Considerable effort has been devoted in recent years to three classes of optimization problems. These areas are nonlinear programming, optimal control, and solution of large-scale systems via decomposition. We have proposed a model problem

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– nonlinear optimal feedback, – controllability of recurrent nets, and – controllability of linear systems with bounded controls. – The discussion on nonlinear stabilization has been expanded, introducing the basic ideas of control-Lyapunov functions, backstepping, and damping control.

Series Preface - mit.edu

Linear Optimal Control Systems I | HUIBERT KWAKERNAAK Twente University of Technology ... "Optimal Linear Output Feedback Control Systems," the ... 1.2.1 State Description of Nonlinear and Linear Differential Systems, 1 1.2.2 Linearization, 2

LINEAR OPTIMAL CONTROL SYSTEMS

An Introduction to Mathematical Optimal Control Theory Version 0.2 By Lawrence C. Evans Department of Mathematics University of California, Berkeley

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problems. This method converts the optimal control problem to a standard nonlinear programming problem. The proposed approach in this paper for modeling and solving optimal control problems of flexible robots can lead to optimal solution without any simplifications such as linearization and decoupling of state equations. This approach can be ...

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In a direct method, the state and/or control of the optimal control problem is discretized in some manner and the problem is transcribed¹⁸ to a nonlinear optimization problem or nonlinear programming problem¹⁹â€“²² (NLP). It is seen that indirect methods and direct method emanate from two different philosophies.

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