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Abstract-This paper explores an adaptive feedback linearization for an uncertain nonlinear system using support vector regression (SVR). SVR, which assures global solution by quadratic programming (QP) problem, is used to learn the nominal dynamics of the input-output feedback-linearized system.

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Adaptive and robust-adaptive control strategies for ...

Textbook reference for lectures 1-13 is . Applied Nonlinear Control, Slotine and Li, Prentice-Hall 1991. Main references for lectures 14-20 are . R1 Lohmiller, W., and Slotine, J.J.E., "On Contraction Analysis for Nonlinear Systems," Automatica, 34(6), 1998 R2 Slotine, J.J.E., "Modular Stability Tools for Distributed Computation and Control," Int. J. Adaptive Control and Signal Processing, 17(6 ...

Slotine - MIT - Massachusetts Institute of Technology

The solution of the robustness problem in adaptive control led to the solution of the long-standing problem of controlling a linear plant whose parameters are unknown and changing with time. By the

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LINEAR ROBUST CONTROL SOLUTIONSMANUAL

This book is written for use as a textbook on adaptive systems at the senior undergraduate, or first and second graduate levels. Cite As Petros Ioannou (2020).

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Several classes of important uncertain nonlinear systems are discussed. The state-of-the art solution presented uses robust and adaptive control design ideas in an integrated approach which demonstrates connections between global stabilization and global output regulation allowing both to be treated as stabilization problems.

Stabilization and Regulation of Nonlinear Systems - A ...

P. A. Ioannou, J. Sun, Robust Adaptive Control, Prentice-Hall, 1996. Note: The book is out of print but is downloadable from the author's website (PDF file, 4MB). See also: P. A. Ioannou and B. Fidan, Adaptive Control Tutorial, SIAM, 2006. This is an updated (and somewhat simplified) version of the first book.

ECE 517: Nonlinear and Adaptive Control (Fall 2012)

Review of adaptive control tutorial. Petros Ioannou and Baris Fidan, SIAM, Philadelphia, PA, 2006. No. of pages: 389. Price: \$99. ISBN 0-89871-615-2

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Adaptive control - Wikipedia

The book investigates the role of artificial input delay in approximating unknown system dynamics, referred to as time-delayed control (TDC), and provides novel solutions to current design issues in T

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