

Strategies for feedback linearisation - a dynamic neural network approach

Springer - Predictive control using feedback linearization based on dynamic neural models



Description: -

- Mediation

Conflict management

Middle Ages

Economic history

Neural networks (Computer science)

Linear systems

Feedback control systems Strategies for feedback linearisation - a dynamic neural network approach

Advances in industrial control Strategies for feedback linearisation - a dynamic neural network approach

Notes: Includes bibliographical references (p. [161]-167) and index

This edition was published in 2003



Filesize: 30.63 MB

Tags: #Neural #network #based #feedback #linearization #control #of #a #servo

Control theory

Clinton, MA USA: The Colonial Press, Inc.

CiteSeerX — Citation Query Feedback linearization with neural network augmentation applied to X

These systems are amenable to powerful mathematical techniques of great generality, such as the , , , , and. The first can more explicitly take into account constraints on the signals in the system, which is an important feature in many industrial processes.

Neural network control approach of a midwater trawl system based on feedback linearization

. System identification and neural network based PID control of servo-hydraulic vehicle suspension system, SAIEE Africa Research Journal 101 3 : 93-105. Although the structure is changed minorly only, the mapping capability of the new designed DNN in this paper has been improved dramatically.

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As a result, the controller cannot compensate for changes acting on the car, like a change in the slope of the road. The shape of the entire mirror is constantly adjusted by a MIMO control system using input from multiple sensors at the focal plane, to compensate for changes in the mirror shape due to thermal expansion, contraction, stresses as it is rotated and distortion of the due to turbulence in the atmosphere. To illustrate the capabilities of the new structure, neural networks are trained to identify a real nonlinear 3D crane system

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