

Optimal Control Of Nonlinear Systems Using The Homotopy

Documentation Abstracts 1996

Nonlinear Controllability and Optimal Control

H.J. Sussmann 2017-11-22 This outstanding reference presents current, state-of-the-art research on important problems of finite-dimensional nonlinear optimal control and controllability theory. It presents an overview of a broad variety of new techniques useful in solving classical control theory problems. Written and edited by renowned mathematicians at the forefront of research in this evolving field, *Nonlinear Controllability and Optimal Control* provides detailed coverage of the construction of solutions of differential inclusions by means of directionally continuous sections ... Lie algebraic conditions for local controllability... the use of the Campbell-Hausdorff series to derive properties of optimal trajectories... the Fuller phenomenon ... the theory of orbits ... and more. Containing more than 1,300 display equations, this exemplary, instructive reference is an invaluable source for mathematical researchers and applied mathematicians, electrical and electronics, aerospace, mechanical, control, systems, and computer engineers, and graduate students in these disciplines .

Deep Reinforcement Learning with Guaranteed Performance Yinyan Zhang 2019-11-09 This book discusses methods and algorithms for the near-optimal adaptive control of nonlinear systems, including the corresponding theoretical analysis and simulative examples, and presents two innovative methods for the redundancy resolution of redundant manipulators with consideration of parameter uncertainty and periodic disturbances. It also reports on a series of systematic investigations on a near-optimal adaptive control method based on the Taylor expansion, neural networks, estimator design approaches, and the idea of sliding mode control, focusing on the tracking control problem of nonlinear systems under different scenarios. The book culminates with a presentation of two new redundancy resolution methods; one addresses adaptive kinematic control of redundant manipulators, and the other

centers on the effect of periodic input disturbance on redundancy resolution. Each self-contained chapter is clearly written, making the book accessible to graduate students as well as academic and industrial researchers in the fields of adaptive and optimal control, robotics, and dynamic neural networks.

SIAM Journal on Control and Optimization
Society for Industrial and Applied Mathematics
1988

Government Reports Announcements & Index 1995

Proceedings of the 1993 American Control Conference 1993

Proceedings, 1995 International Symposium on Nonlinear Theory and Its Applications 1995

Scientific and Technical Aerospace Reports
1994

Proceedings of the ... American Control Conference 1992

The Engineering Index Annual 1992 Since its creation in 1884, Engineering Index has covered virtually every major engineering innovation from around the world. It serves as the historical record of virtually every major engineering innovation of the 20th century. Recent content is a vital resource for current awareness, new production information, technological forecasting and competitive intelligence. The world's most comprehensive interdisciplinary engineering database, Engineering Index contains over 10.7 million records. Each year, over 500,000 new abstracts are added from over 5,000 scholarly journals, trade magazines, and conference proceedings. Coverage spans over 175 engineering disciplines from over 80 countries. Updated weekly.

Role of Nutrients in Neurological Disorders
Senthilkumar Rajagopal 2022-03-12 This book provides the latest research on the role of nutrients in the prevention and treatment of neurological disorders. It discusses dietary supplements and dietary restrictions for combating neurological disorders, including Alzheimer's disease, Parkinson's disease, stroke, and epilepsy. The book also explains the impact of different nutrients such as herbal products,

algae, micronutrients in stimulating the brain and central nervous system during abnormal functions. It covers the effect of the nutrients on the function of neurotransmitters, their stimulatory effect in autism, dementia, Alzheimer's, and other neuropathological states. The book also defines the mechanistic effects of neuroprotective and psycho protective effects of natural food in repairing brain damage. This book is essential reading for neuroscientists and neurologists, and healthcare professionals.

Cybernetics Abstracts 1972

Mathematical Reviews 2002

Index to IEEE Publications Institute of Electrical and Electronics Engineers 1989 Issues for 1973- cover the entire IEEE technical literature.

Dissertation Abstracts International 1995

Technology for Large Space Systems: A Bibliography with Indexes (supplement 22) 1990

Advances in Numerical Partial Differential Equations and Optimization Susana Gomez 1990-12-31 The papers in this volume emphasize the numerical aspects of three main areas: optimization, linear algebra and partial differential equations. Held in January, 1989, in Yucatan, Mexico, the workshop was organized by the Institute for Research in Applied Mathematics of the National University of Mexico in collaboration with the mathematical Sciences Department at Rice University.

Applied Science & Technology Index 1997

Analysis and Control of Nonlinear Systems

Christopher I. Byrnes 1988

International Aerospace Abstracts 1999

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