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## **controlling the uncontrollable quantum control of open**

Mar 29 2024

abstract control of open quantum systems is essential for the realization of contemporary quantum science and technology we demonstrate such control using a thermodynamically consistent framework taking into account the fact that the drive can modify the system s interaction with the environment

## **physics informed neural nets for control of dynamical systems**

Feb 28 2024

to find the most suitable configuration for the pinc net to control a dynamical system we propose first running grid search experiments over hyperparameters such as the network complexity and the number of data points  $n_t$  and collocation points  $n_f$

## **dynamical control of quantum heat engines using exceptional**

Jan 27 2024

22 citations 16 altmetric metrics a quantum thermal machine is an open quantum system coupled to hot and cold thermal baths thus its dynamics can be well understood using the concepts and

## ***controlling nonlinear dynamical systems into arbitrary states***

Dec 26 2023

published 21 june 2021 controlling nonlinear dynamical systems into arbitrary states using machine learning alexander haluszczynski christoph r  th scientific reports 11 article number

## **learning and control of dynamical systems caltechthesis**

Nov 25 2023

our investigation covers a broad range of dynamical systems starting from fully observable linear dynamical systems to partially observable linear dynamical systems and ultimately nonlinear systems we deploy our learning and control algorithms in various adaptive control tasks in real world control systems and demonstrate their strong

## **home journal of dynamical and control systems springer**

Oct 24 2023

overview journal of dynamical and control systems is a comprehensive platform for all issues related to dynamical systems and control systems it explores the theory of smooth dynamical systems with measure theoretical topological and bifurcational aspects

## **chapter 1 introduction springer**

Sep 23 2023

chapter 1 introduction 1 1 controllability concept control theory is an interdisciplinary branch of engineering and mathematics that deals with influence behavior of dynamical systems controllability is one of the fundamental concepts in mathematical control theory

## **physics informed machine learning for modeling and control of**

Aug 22 2023

specifically the paper covers an overview of the theory fundamental concepts and methods tools and applications on topics of 1 physics informed learning for system identification 2 physics informed learning for control 3 analysis and verification of piml models and 4 physics informed digital twins

## **home international journal of dynamics and control springer**

Jul 21 2023

overview international journal of dynamics and control is a publication dedicated to advancing the knowledge of linear and nonlinear dynamic systems and their control covers all aspects of dynamics and control including theoretical developments computational algorithms experimental techniques and emerging applications

## **dynamical control of nanoscale light matter interactions in**

Jun 20 2023

dynamical control of nanoscale light matter interactions in low dimensional quantum materials light science applications review article open access published 25 january 2024

## ***control and dynamical systems caltech academic catalog***

May 19 2023

control and dynamical systems some of the most exciting interactions between mathematics and engineering are occurring in the area of analysis and control of uncertain multivariable and nonlinear dynamical systems

## **small gain theory for stability and control of dynamical**

Apr 18 2023

this paper provides a personal account of the small gain theory as a tool for stability analysis control synthesis and robustness analysis for interconnected uncertain systems a milestone in modern control theory is the development of a transformative stability criterion known as the classical small gain theorem proposed by george zames in

## ***optimal control of dynamical systems governed by partial***

Mar 17 2023

optimal control of dynamical systems governed by partial differential equations a perspective from real life applications sciencedirect ifac proceedings volumes volume 45 issue 2 2012 pages 1 12 optimal control of dynamical systems governed by partial differential equations a perspective from real life applications hans josefpesch

## **pdf cooperative control of dynamical systems with**

Feb 16 2023

cooperative control of dynamical systems with application to autonomous vehicles z qu jing wang r hull published in ieee transactions on 17 february 2009 computer science engineering

## **demonstration of dynamical control of three level open**

Jan 15 2023

abstract we propose a method for the dynamical control in three level open systems and realize it in the experiment with a superconducting qutrit our work demonstrates that in the markovian environment for a relatively long time  $3 \mu s$  the systemic populations or coherence can still strictly follow the preset evolution paths

## **control robotics and dynamical systems mechanical and**

Dec 14 2022

control robotics and dynamical systems the analysis synthesis and design of systems with complex dynamics and techniques for controlling such systems using feedback play important roles in many aspects of engineering

## **dynamic control an overview sciencedirect topics**

Nov 13 2022

vehicle dynamic control is based upon a simplified but still valid vehicle model the vertical dynamics and drive dynamics are modeled together and all relevant non linearities are included the calculations are limited to four coordinate systems cog for the chassis center of gravity coordinate system un for the undercarriage system

## **project control and controllability of dynamic complex**

Oct 12 2022

project control and controllability of dynamic complex networks theories and strategies

## **dynamic construction and enhanced control of ieee xplore**

Sep 11 2022

with the increasing scale of distributed energy resource der allocation local energy system les has emerged as a new form of energy supply however the market operation mechanism of les involving multi level interaction still need to be revamped herein firstly an iot based hierarchical architecture is proposed and the functional infrastructures of each level are presented coupling

## **model free tracking control of complex dynamical trajectories**

Aug 10 2022

the traditional field of controlling chaotic dynamical systems mostly deals with the problem of utilizing small perturbations to transform a chaotic trajectory into a desired periodic one 1

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