

Improvements of the Adaptive Slotine & Li Controller – Comparative Analysis with Solutions Using Local Robust Fixed Point Transformations

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Abstract: One of the most sophisticated classical robot controller, the "*Slotine-Li Adaptive Controller*" is constructed on the basis of exact knowledge on the form of the equations of motion of the system under control, and on the application of "*Lyapunov's 2nd Method*". This generic technique makes it possible to guarantee the stability of the controlled system using only simple estimations without having any detailed knowledge on its motion that is a great advantage. However, in the application of this elegant technique the main problem is the proper construction of the Lyapunov function. Formal elegance usually has the price of limitations in the applicable trajectory tracking policy and in the presence of a huge number of the constant control parameters to be determined in the commencement of the controller's operation. In the here presented approach the controller invented by Slotine and Li is modified in two steps: the first step modifies the original Lyapunov function, the second one—as an addition—modifies the parameter tuning by utilizing the information encoded in the equations of motion for which no any Lyapunov function is needed. The advantage is the limitation in the number of the fixed control parameters, and possibility for faster parameter tuning. The modified controller's operation is compared with that of a simple adaptive technique using locally convergent Cauchy sequences in iterative learning via simulation for a simple Classical Mechanical System as a paradigm.

Key-Words: Adaptive Control, Slotine-Li Adaptive Controller, Parameter Tuning, Iterative Learning, Cauchy Sequences

1 Introduction

In this paper possible improvements of the most sophisticated classical controller, the "*Slotine-Li Adaptive Controller*" [1] based on the use of *formally exact, permanent, and complete* model with *parameter uncertainties* is considered in comparison with a novel adaptive approach applying only *partial, incomplete, temporal, and situation-dependent* model that requires continuous refreshment via observing the behavior of the controlled system in the actual situation. It will be shown how simple geometric considerations can be used for developing iterative learning control. It will also be shown that in the case of the novel approach the conditions of convergence normally can be satisfied by choosing very primitive initial system models and roughly chosen control parameters on the basis of simple geometric considerations.

It will be pointed out that while even the improved Slotine-Li controller is applicable only for learning linearly separable dynamical system parameters and normally it fails for the permanent presence of unknown external disturbances and linearly non-separable (e.g. friction) parameters, the novel approach can well compensate the simultaneous effects of these factors. In contrast to the traditional solutions that normally guarantee global (asymptotic) stability by using Lyapunov functions, the novel approach can assure only local region of stability that in principle can be left by the system's state. To cope with this problem a *real time simulation tool* has been developed to study the robustness of the various controllers against the variation of the adaptive control parameters. The already achieved results will be exemplified by simulation studies using the same paradigm.

Slotine Li Solutions Manual

Daniel F McAuley



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Control Theory and Advanced Technology, 1995

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Pushkin Kachroo, Kaan M.A. Özbay, 2018-05-16 This book develops a methodology for designing feedback control laws for dynamic traffic assignment DTA exploiting the introduction of new sensing and information dissemination technologies to facilitate the introduction of real time traffic management in intelligent transportation systems Three methods of modeling the traffic system are discussed partial differential equations representing a distributed parameter setting continuous time ordinary differential equations ODEs representing a continuous time lumped parameter setting and discrete time ODEs representing a discrete time lumped parameter setting Feedback control formulations for reaching road user equilibrium are presented for each setting and advantages and disadvantage of using each are addressed The closed loop methods described are proposed expressly to avoid the counter productive shifting of bottlenecks from one route to another because of driver over reaction to routing information The second edition of Feedback Control Theory for Dynamic Traffic Assignment has been thoroughly updated with completely new chapters a review of the DTA problem and emphasizing real time feedback based problems an up to date presentation of pertinent traffic flow theory and a treatment of the mathematical solution to the traffic dynamics Techniques accounting for the importance of entropy are further new inclusions at various points in the text Researchers working in traffic control will find the theoretical material presented a sound basis for further research the continual reference to applications will help professionals working in highway administration and engineering with the increasingly important task of maintaining and smoothing traffic flow the extensive use of end of chapter exercises will help the graduate student and those new to the field to extend their knowledge

Books in Print Supplement, 2002

Control System Fundamentals

William S. Levine, 2019-01-15 Sifting through the variety of control systems applications can be a chore Diverse and numerous technologies inspire applications ranging from float valves to microprocessors Relevant to any system you might use the highly adaptable Control System Fundamentals fills your need for a comprehensive treatment of the basic principles of control system engineering This overview furnishes the underpinnings of modern control systems Beginning with a review of the required mathematics major subsections cover digital control and modeling An international panel of experts discusses the specification of control systems techniques for dealing with the most common and important control system nonlinearities and digital implementation of control systems with complete references This framework yields a primary resource that is also capable of directing you to more detailed articles and books This self contained reference explores the universal aspects of control that you need for any application Reliable up to date and versatile Control System Fundamentals answers your basic control systems questions and acts as an ideal starting point for approaching any control problem

Journal of Guidance, Control, and Dynamics, 2007

The British National

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Mathematical Problems in Image Processing Gilles Aubert, Pierre

Kornprobst,2006-11-30 Partial differential equations PDEs and variational methods were introduced into image processing about fifteen years ago Since then intensive research has been carried out The goals of this book are to present a variety of image analysis applications the precise mathematics involved and how to discretize them Thus this book is intended for two audiences The first is the mathematical community by showing the contribution of mathematics to this domain It is also the occasion to highlight some unsolved theoretical questions The second is the computer vision community by presenting a clear self contained and global overview of the mathematics involved in image processing problems This work will serve as a useful source of reference and inspiration for fellow researchers in Applied Mathematics and Computer Vision as well as being a basis for advanced courses within these fields During the four years since the publication of the first edition there has been substantial progress in the range of image processing applications covered by the PDE framework The main goals of the second edition are to update the first edition by giving a coherent account of some of the recent challenging applications and to update the existing material In addition this book provides the reader with the opportunity to make his own simulations with a minimal effort To this end programming tools are made available which will allow the reader to implement and test easily some classical approaches

The Control Handbook William S. Levine,1996-02-23 This is the biggest most comprehensive and most prestigious compilation of articles on control systems imaginable Every aspect of control is expertly covered from the mathematical foundations to applications in robot and manipulator control Never before has such a massive amount of authoritative detailed accurate and well organized information been available in a single volume Absolutely everyone working in any aspect of systems and controls must have this book

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