Bin Zhou

Truncated Predictor Feedback for Time–Delay Systems

Springer

Truncated Predictor Feedback For Time Delay Systems

Institute of Electrical and Electronics Engineers

Truncated Predictor Feedback For Time Delay Systems:

Truncated Predictor Feedback for Time-Delay Systems Bin Zhou,2014-05-29 This book provides a systematic approach to the design of predictor based controllers for time varying linear systems with either time varying input or state delays Differently from those traditional predictor based controllers which are infinite dimensional static feedback laws and may cause difficulties in their practical implementation this book develops a truncated predictor feedback TPF which involves only finite dimensional static state feedback Features and topics A novel approach referred to as truncated predictor feedback for the stabilization of time varying time delay systems in both the continuous time setting and the discrete time setting is built systematically Semi global and global stabilization problems of linear time delay systems subject to either magnitude saturation or energy constraints are solved in a systematic manner Both stabilization of a single system and consensus of a group of systems multi agent systems are treated in a unified manner by applying the truncated predictor feedback and predictor feedback The properties of the solutions to a class of parametric differential and difference Lyapunov matrix equations are presented in detail Detailed numerical examples and applications to the spacecraft rendezvous and formation flying problems are provided to demonstrate the usefulness of the presented theoretical results This book can be a useful resource for the researchers engineers and graduate students in the fields of control applied mathematics mechanical engineering electrical engineering and aerospace engineering   **Truncated Predictor Based Feedback Designs for Linear Systems with Input Delay** Yusheng Wei,Zongli Lin,2020-10-31 This monograph is the first of its kind to present innovative research results on truncated predictor feedback TPF designs for general linear systems with input delay Beginning with a brief review of time delay systems the first half of the book focuses on TPF with a constant feedback parameter Both state feedback and output feedback are considered It is established that TPF achieves stabilization in the presence of an arbitrarily large bounded delay if the open loop system is not exponentially unstable Examples are presented to illustrate that TPF may fail to stabilize an exponentially unstable system when the delay is sufficiently large Bounds on the delay are then established under which stabilization can be achieved The second half of the book explores variations of the TPF laws designed with a non constant feedback parameter to accommodate unknown delays and improve closed loop performance The authors employ a step by step approach to presenting the ultimate result on a completely delay independent feedback law Truncated Predictor Based Feedback Designs for Linear Systems with Input Delay will appeal to control engineers control theorists and graduate students studying control systems This volume will also be a valuable resource for engineers and applied mathematicians interested in dynamic systems with time delays   Accounting for Constraints in Delay Systems Giorgio Valmorbida,Wim Michiels,Pierdomenico Pepe,2022-04-02 Time delays are fundamental to understand phenomena in control applications as networked systems traffic management control of vibrations and supply chains The need for a performance and reliability on these systems has to overcome challenges related to the constraints in

the controlled systems These constraints can be physical such as input magnitude saturation on actuators or technological such as the limited bandwidth in a networked system or the fixed structure in a control architecture where only a few parameters can be set This volume provides a wide ranging collection of methods for the analysis and design of control laws for delay systems with constraints These methods cover fundamental analytical aspects as for instance the stability analysis of Positive Delay systems or the achievable performance of PID controls for delay systems The book gives valuable material for researchers and graduate students in Automatic Control **Control Strategy for Time-Delay Systems** Mohammad-Hassan Khooban,Tomislav Dragicevic,2020-11-21 Control Strategy for Time Delay Systems Part I Concepts and Theories covers all the important features of real world practical applications which will be valuable to practicing engineers and specialists especially given that delays are present in 99% of industrial processes The book presents the views of the editors on promising research directions and future industrial applications in this area Although the fundamentals of time delay systems are discussed the book focuses on the advanced modeling and control of such systems and will provide the analysis and test or simulation results of nearly every technique described For this purpose highly complex models are introduced to describe the mentioned new applications which are characterized by time varying delays with intermittent and stochastic nature several types of nonlinearities and the presence of different time scales Researchers practitioners and PhD students will gain insights into the prevailing trends in design and operation of real time control systems reviewing the shortcomings and future developments concerning practical system issues such as standardization protection and design Presents an overview of the most recent trends for time delay systems Covers the important features of the real world practical applications that can be valuable to practicing engineers and specialists Provides analysis and simulations results of the techniques described in the book **Iterative Learning Control for Nonlinear Time-Delay System** Jianming Wei,Hong Wang,Fang Liu,2023-01-01 This book focuses on adaptive iterative learning control problem for nonlinear time delay systems A universal adaptive learning control scheme is provided for a wide classes of nonlinear systems with time varying delay and input nonlinearity Proceeding from easy to difficult this book deals with the adaptive iterative learning control problems for parameterized nonlinear time delay systems non parameterized nonlinear time delay systems nonlinear time delay systems with unknown control direction and nonlinear time delay systems with un measurable states The proposed control schemes can be extended to the adaptive learning control problem for wider classes of nonlinear systems revelent to abovementioned nonlinear systems The topics presented in this book are research hot spots of iterative learning control This book will be a valuable reference for researchers and students working or studying in this area Recent Results on Nonlinear Delay Control Systems Iasson Karafyllis,Michael Malisoff,Frederic Mazenc,Pepe Pierdomenico,2015-07-15 This volume collects recent advances in nonlinear delay systems with an emphasis on constructive generalized Lyapunov and predictive approaches that certify stability properties The book is written by experts in the field

and includes two chapters by Miroslav Krstic to whom this volume is dedicated This volume is suitable for all researchers in mathematics and engineering who deal with nonlinear delay control problems and students who would like to understand the current state of the art in the control of nonlinear delay systems   **Nonlinear Control Under Nonconstant Delays** Nikolaos Bekiaris-Liberis,Miroslav Krstic,2013-09-25 The authors have developed a methodology for control of nonlinear systems in the presence of long delays with large and rapid variation in the actuation or sensing path or in the presence of long delays affecting the internal state of a system In addition to control synthesis they introduce tools to quantify the performance and the robustness properties of the designs provided in the book The book is based on the concept of predictor feedback and infinite dimensional backstepping transformation for linear systems and the authors guide the reader from the basic ideas of the concept with constant delays only on the input all the way through to nonlinear systems with state dependent delays on the input as well as on system states Readers will find the book useful because the authors provide elegant and systematic treatments of long standing problems in delay systems such as systems with state dependent delays that arise in many applications In addition the authors give all control designs by explicit formulae making the book especially useful for engineers who have faced delay related challenges and are concerned with actual implementations and they accompany all control designs with Lyapunov based analysis for establishing stability and performance guarantees
    Predictor Feedback for Delay Systems: Implementations and Approximations Iasson Karafyllis,Miroslav Krstic,2017-03-06 This monograph bridges the gap between the nonlinear predictor as a concept and as a practical tool presenting a complete theory of the application of predictor feedback to time invariant uncertain systems with constant input delays and or measurement delays It supplies several methods for generating the necessary real time solutions to the systems nonlinear differential equations which the authors refer to as approximate predictors Predictor feedback for linear time invariant LTI systems is presented in Part I to provide a solid foundation on the necessary concepts as LTI systems pose fewer technical difficulties than nonlinear systems Part II extends all of the concepts to nonlinear time invariant systems Finally Part III explores extensions of predictor feedback to systems described by integral delay equations and to discrete time systems The book s core is the design of control and observer algorithms with which global stabilization guaranteed in the previous literature with idealized but non implementable predictors is preserved with approximate predictors developed in the book An applications driven engineer will find a large number of explicit formulae which are given throughout the book to assist in the application of the theory to a variety of control problems A mathematician will find sophisticated new proof techniques which are developed for the purpose of providing global stability guarantees for the nonlinear infinite dimensional delay system under feedback laws employing practically implementable approximate predictors Researchers working on global stabilization problems for time delay systems will find this monograph to be a helpful summary of the state of the art while graduate students in the broad field of systems and control will advance their skills in nonlinear control design and the

analysis of nonlinear delay systems   **International Workshop on Electronic Design, Test and Applications** Michel Renovell,2002 A collection of the 78 oral presentations and 24 poster papers from the January 2002 international workshop which brought together specialists from a broad area of electronic design manufacturing test and advanced system applications in the hope that the conference would integrate design test and application as cross dependent disciplines The contributions are organized into sessions focusing on analog test communications digital signal processing and architectures low to high level fault simulation and identification high level design memory power issues in design and test sensor and analog design electrical engineering education electromagnetics and control fault tolerant digital systems image processing robotics submicron technology test generation and compaction and test techniques and methodologies Annotation copyrighted by Book News Inc Portland OR   *Theoretical Chemical Engineering Abstracts* ,1984   **Applied Algebra, Algebraic Algorithms, and Error-correcting Codes** ,1988   **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1989 Issues for 1973 cover the entire IEEE technical literature   *International Aerospace Abstracts* ,1989   Motion Control (MC'98) D. Georges,1999 Paperback This workshop comprised three plenary sessions three invited sessions and fifty six regular papers which were selected by the International Programme Committee and came from twenty one countries The three plenary sessions covered the following topics Control of Self Optimizing Exercise Machines Motion Control Problems in Automotive Control and Control for Simulated Human and Animal Motion The three invited sessions were devoted to Non Holonomic Motion Control Hybrid Control of Mechanical Systems and Intelligent Motion Control The regular sessions covered the following domains Friction and Backlash High Precision Motion Control Actuators and Sensors Mobile Robots and Non Holonomic Systems Automotive Control Rigid Robot Control Flexible Structures Walking Robots High Precision Motion Control Motion Control AC Motor Drives and Intelligent Motion Control   *Semiglobal Control of Time-delay Nonlinear Systems by Memoryless Feedback* Yuanjiu Wang,2021 Time delays are ubiquitous and present in various engineering applications and dynamic processes including but not limited to cyber physical systems communication networks power grids chemical processes and biological systems etc In this thesis we study the fundamental problem of how to control a general Multi input multi output MIMO nonlinear system with time delays by memoryless feedback The time delay control problems are classified into two categories state delay and input delay problems One of the contributions of the thesis is to develop a semiglobal control approach for the nonlinear system with large state delays This research is motivated by the recent work on semiglobal asymptotic stabilization SGAS of nonlinear systems with triangular zero dynamics by linear feedback To achieve the SGAS we propose a semiglobal control scheme for the construction of a set of parametrized Lyapunov functions associated sublevel sets and a nested high gain linear state feedback With the aid of the new semiglobal design method together with the Razumikhin theorem a delay free linear state feedback law is designed recursively to achieve SGAS for nonlinear systems with large state delays in a lower triangular form The significance of such results is to

point out that a trade off of the control objectives i e semiglobal vs global stabilization makes it possible to control an important class of nonlinear systems with large state delays by memoryless linear feedback The other important contribution of the thesis is to address the semiglobal control problem of general MIMO nonlinear systems with input delay It is well known that different from the linear case global asymptotic stabilization of a nonlinear system with input delay is in general impossible to achieve no matter how small the input delay is To overcome this fundamental obstacle we introduce the notion of semiglobal input delay tolerance SGIDT and present a semiglobal control framework for the asymptotic analysis and synthesis of input delay tolerance of MIMO nonlinear systems under smooth feedback The major results of this thesis include 1 in the case of state feedback by using the Razumikhin theorem and the converse Lyapunov theorem on global asymptotic local exponential stability GALES it is proved that GALES does ensure the SGAS of a MIMO nonlinear system with input delay 2 in the case of output feedback it is further proved that GALES and uniform observability imply SGAS of a MIMO nonlinear system with input delay The semiglobal framework has also offered a guideline for estimating the maximal allowable delay MAD of nonlinear systems The final contribution of this thesis is the development of a linearization technique for a class of infinite dimensional systems described by functional differential equations FDE namely how to control nonlinear systems with a large input delay by memoryless feedback A linearization method is presented to achieve local asymptotic stabilization LAS via memoryless state and or output feedback for MIMO nonlinear systems with a large delay in the actuator Such developments are based on the Razumikhin theorem a forward completeness lemma of the FDE on a closed and bounded interval and the previous work on truncated predictor feedback control of linear systems with input delay The novel linearization technique for infinite dimensional FDEs can be viewed as a natural extension of the Lyapunov 1st approximation theorem for finite dimensional nonlinear systems   Delay Compensation for Nonlinear, Adaptive, and PDE Systems Miroslav Krstic,2010-01-23 Some of the most common dynamic phenomena that arise in engineering practice actuator and sensor delays fall outside the scope of standard finite dimensional system theory The first attempt at infinite dimensional feedback design in the field of control systems the Smith predictor has remained limited to linear finite dimensional plants over the last five decades Shedding light on new opportunities in predictor feedback this book significantly broadens the set of techniques available to a mathematician or engineer working on delay systems The book is a collection of tools and techniques that make predictor feedback ideas applicable to nonlinear systems systems modeled by PDEs systems with highly uncertain or completely unknown input output delays and systems whose actuator or sensor dynamics are modeled by more general hyperbolic or parabolic PDEs rather than by pure delay Numerous examples and a detailed treatment of individual classes of problems will help the reader master the techniques Delay Compensation for Nonlinear Adaptive and PDE Systems is an excellent reference guide for graduate students researchers and professionals in mathematics systems control as well as chemical mechanical electrical computer aerospace and civil structural engineering Parts of the book may

be used in graduate courses on general distributed parameter systems linear delay systems PDEs nonlinear control state estimator and observers adaptive control robust control or linear time varying systems   **Mathematical Reviews** ,2003   **Electro '94 International** ,1994   *Conference Proceedings* ,1994   <u>Transactions of the American Institute of Electrical Engineers</u> American Institute of Electrical Engineers,1960

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