



LECTURE NOTES IN CONTROL
AND INFORMATION SCIENCES

291

Jian-Xin Xu
Ying Tan

Linear and Nonlinear Iterative Learning Control



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Linear And Nonlinear Iterative Learning Control

Dong Shen



Linear And Nonlinear Iterative Learning Control:

Linear and Nonlinear Iterative Learning Control Jian-Xin Xu, Ying Tan, 2003-09-04 This monograph summarizes the recent achievements made in the field of iterative learning control The book is self contained in theoretical analysis and can be used as a reference or textbook for a graduate level course as well as for self study It opens a new avenue towards a new paradigm in deterministic learning control theory accompanied by detailed examples

Iterative Learning Control Zeungnam Bien, Jian-Xin Xu, 2012-12-06 Iterative Learning Control ILC differs from most existing control methods in the sense that it exploits every possibility to incorporate past control information such as tracking errors and control input signals into the construction of the present control action There are two phases in Iterative Learning Control first the long term memory components are used to store past control information then the stored control information is fused in a certain manner so as to ensure that the system meets control specifications such as convergence robustness etc It is worth pointing out that those control specifications may not be easily satisfied by other control methods as they require more prior knowledge of the process in the stage of the controller design ILC requires much less information of the system variations to yield the desired dynamic behaviors Due to its simplicity and effectiveness ILC has received considerable attention and applications in many areas for the past one and half decades Most contributions have been focused on developing new ILC algorithms with property analysis Since 1992 the research in ILC has progressed by leaps and bounds On one hand substantial work has been conducted and reported in the core area of developing and analyzing new ILC algorithms On the other hand researchers have realized that integration of ILC with other control techniques may give rise to better controllers that exhibit desired performance which is impossible by any individual approach

Iterative Learning Control Algorithms and Experimental Benchmarking Eric Rogers, Bing Chu, Christopher Freeman, Paul Lewin, 2023-01-17 Iterative Learning CONTROL ALGORITHMS AND EXPERIMENTAL BENCHMARKING Iterative Learning Control Algorithms and Experimental Benchmarking Presents key cutting edge research into the use of iterative learning control The book discusses the main methods of iterative learning control ILC and its interactions as well as comparator performance that is so crucial to the end user The book provides integrated coverage of the major approaches to date in terms of basic systems theoretic properties design algorithms and experimentally measured performance as well as the links with repetitive control and other related areas Key features Provides comprehensive coverage of the main approaches to ILC and their relative advantages and disadvantages Presents the leading research in the field along with experimental benchmarking results Demonstrates how this approach can extend out from engineering to other areas and in particular new research into its use in healthcare systems rehabilitation robotics The book is essential reading for researchers and graduate students in iterative learning control repetitive control and more generally control systems theory and its applications

Iterative Learning Control for Systems with Iteration-Varying Trial Lengths Dong Shen, Xuefang Li, 2019-01-29 This book presents a comprehensive and

detailed study on iterative learning control ILC for systems with iteration varying trial lengths Instead of traditional ILC which requires systems to repeat on a fixed time interval this book focuses on a more practical case where the trial length might randomly vary from iteration to iteration The iteration varying trial lengths may be different from the desired trial length which can cause redundancy or dropouts of control information in ILC making ILC design a challenging problem The book focuses on the synthesis and analysis of ILC for both linear and nonlinear systems with iteration varying trial lengths and proposes various novel techniques to deal with the precise tracking problem under non repeatable trial lengths such as moving window switching system and searching based moving average operator It not only discusses recent advances in ILC for systems with iteration varying trial lengths but also includes numerous intuitive figures to allow readers to develop an in depth understanding of the intrinsic relationship between the incomplete information environment and the essential tracking performance This book is intended for academic scholars and engineers who are interested in learning about control data driven control networked control systems and related fields It is also a useful resource for graduate students in the above field

Iterative Learning Control for Multi-agent Systems Coordination Shiping Yang, Jian-Xin Xu, Xuefang Li, Dong Shen, 2017-03-03 A timely guide using iterative learning control ILC as a solution for multi agent systems MAS challenges showcasing recent advances and industrially relevant applications Explores the synergy between the important topics of iterative learning control ILC and multi agent systems MAS Concisely summarizes recent advances and significant applications in ILC methods for power grids sensor networks and control processes Covers basic theory rigorous mathematics as well as engineering practice

Real-time Iterative Learning Control Jian-Xin Xu, Sanjib K. Panda, Tong Heng Lee, 2008-12-12 Real time Iterative Learning Control demonstrates how the latest advances in iterative learning control ILC can be applied to a number of plants widely encountered in practice The book gives a systematic introduction to real time ILC design and source of illustrative case studies for ILC problem solving the fundamental concepts schematics configurations and generic guidelines for ILC design and implementation are enhanced by a well selected group of representative simple and easy to learn example applications Key issues in ILC design and implementation in linear and nonlinear plants pervading mechatronics and batch processes are addressed in particular ILC design in the continuous and discrete time domains design in the frequency and time domains design with problem specific performance objectives including robustness and optimality design in a modular approach by integration with other control techniques and design by means of classical tools based on Bode plots and state space

Discrete-Time Adaptive Iterative Learning Control Ronghu Chi, Na Lin, Huimin Zhang, Ruikun Zhang, 2022-03-21 This book belongs to the subject of control and systems theory The discrete time adaptive iterative learning control DAILC is discussed as a cutting edge of ILC and can address random initial states iteration varying targets and other non repetitive uncertainties in practical applications This book begins with the design and analysis of model based DAILC methods by referencing the tools used in the discrete time adaptive control theory

To overcome the extreme difficulties in modeling a complex system the data driven DAILC methods are further discussed by building a linear parametric data mapping between two consecutive iterations Other significant improvements and extensions of the model based data driven DAILC are also studied to facilitate broader applications The readers can learn the recent progress on DAILC with consideration of various applications This book is intended for academic scholars engineers and graduate students who are interested in learning control adaptive control nonlinear systems and related fields

Data-Driven Iterative Learning Control for Discrete-Time Systems Ronghu Chi,Yu Hui,Zhongsheng Hou,2022-11-15 This book belongs to the subject of control and systems theory It studies a novel data driven framework for the design and analysis of iterative learning control ILC for nonlinear discrete time systems A series of iterative dynamic linearization methods is discussed firstly to build a linear data mapping with respect of the system s output and input between two consecutive iterations On this basis this work presents a series of data driven ILC DDILC approaches with rigorous analysis After that this work also conducts significant extensions to the cases with incomplete data information specified point tracking higher order law system constraint nonrepetitive uncertainty and event triggered strategy to facilitate the real applications The readers can learn the recent progress on DDILC for complex systems in practical applications This book is intended for academic scholars engineers and graduate students who are interested in learning control adaptive control nonlinear systems and related fields

Variable Gain Design in Stochastic Iterative Learning Control Dong Shen,2025-01-02 This book investigates the critical gain design in stochastic iterative learning control SILC including four specific gain design strategies decreasing gain design adaptive gain design event triggering gain design and optimal gain design The key concept for the gain design is to balance multiple performance indices such as high tracking precision effective noise reduction and fast convergence speed These gain design techniques can be applied to various control algorithms for stochastic systems to realize a high tracking performance This book provides a series of design and analysis techniques for the establishment of a systematic framework of gain design in SILC The book is intended for scholars and graduate students who are interested in stochastic control recursive algorithms design and iterative learning control

Iterative Learning Control for Deterministic Systems Kevin L. Moore,2012-12-06 The material presented in this book addresses the analysis and design of learning control systems It begins with an introduction to the concept of learning control including a comprehensive literature review The text follows with a complete and unifying analysis of the learning control problem for linear LTI systems using a system theoretic approach which offers insight into the nature of the solution of the learning control problem Additionally several design methods are given for LTI learning control incorporating a technique based on parameter estimation and a one step learning control algorithm for finite horizon problems Further chapters focus upon learning control for deterministic nonlinear systems and a time varying learning controller is presented which can be applied to a class of nonlinear systems including the models of typical robotic manipulators The book concludes

with the application of artificial neural networks to the learning control problem Three specific ways to neural nets for this purpose are discussed including two methods which use backpropagation training and reinforcement learning The appendices in the book are particularly useful because they serve as a tutorial on artificial neural networks

Iterative Learning Control for Flexible Structures Tingting Meng, Wei He, 2020-03-23 This book presents iterative learning control ILC to address practical issues of flexible structures It is divided into four parts Part I provides a general introduction to ILC and flexible structures while Part II proposes various types of ILC for simple flexible structures to address issues such as vibration input saturation input dead zone input backlash external disturbances and trajectory tracking It also includes simple partial differential equations to deal with the common problems of flexible structures Part III discusses the design of ILC for flexible micro aerial vehicles and two link manipulators and lastly Part IV offers a summary of the topics covered Unlike most of the literature on ILC which focuses on ordinary differential equation systems this book explores distributed parameter systems which are comparatively less stabilized through ILC Including a comprehensive introduction to ILC of flexible structures it also examines novel approaches used in ILC to address input constraints and disturbance rejection This book is intended for researchers graduate students and engineers in various fields such as flexible structures external disturbances nonlinear inputs and tracking control

Iterative Learning Control Hyo-Sung Ahn, Kevin L. Moore, YangQuan Chen, 2007-06-28 This monograph studies the design of robust monotonically convergent iterative learning controllers for discrete time systems It presents a unified analysis and design framework that enables designers to consider both robustness and monotonic convergence for typical uncertainty models including parametric interval uncertainties iteration domain frequency uncertainty and iteration domain stochastic uncertainty The book shows how to use robust iterative learning control in the face of model uncertainty

The Control Handbook (three volume set) William S. Levine, 2018-10-08 At publication The Control Handbook immediately became the definitive resource that engineers working with modern control systems required Among its many accolades that first edition was cited by the AAP as the Best Engineering Handbook of 1996 Now 15 years later William Levine has once again compiled the most comprehensive and authoritative resource on control engineering He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields Now expanded from one to three volumes The Control Handbook Second Edition brilliantly organizes cutting edge contributions from more than 200 leading experts representing every corner of the globe They cover everything from basic closed loop systems to multi agent adaptive systems and from the control of electric motors to the control of complex networks Progressively organized the three volume set includes Control System Fundamentals Control System Applications Control System Advanced Methods Any practicing engineer student or researcher working in fields as diverse as electronics aeronautics or biomedicine will find this handbook to be a time saving resource filled with invaluable formulas models

methods and innovative thinking In fact any physicist biologist mathematician or researcher in any number of fields developing or improving products and systems will find the answers and ideas they need As with the first edition the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances

Iterative Learning Control with Passive Incomplete Information Dong Shen,2018-04-16

This book presents an in depth discussion of iterative learning control ILC with passive incomplete information highlighting the incomplete input and output data resulting from practical factors such as data dropout transmission disorder communication delay etc a cutting edge topic in connection with the practical applications of ILC It describes in detail three data dropout models the random sequence model Bernoulli variable model and Markov chain model for both linear and nonlinear stochastic systems Further it proposes and analyzes two major compensation algorithms for the incomplete data namely the intermittent update algorithm and successive update algorithm Incomplete information environments include random data dropout random communication delay random iteration varying lengths and other communication constraints With numerous intuitive figures to make the content more accessible the book explores several potential solutions to this topic ensuring that readers are not only introduced to the latest advances in ILC for systems with random factors but also gain an in depth understanding of the intrinsic relationship between incomplete information environments and essential tracking performance It is a valuable resource for academics and engineers as well as graduate students who are interested in learning about control data driven control networked control systems and related fields

Iterative Learning Control for Network Systems Under Constrained Information Communication Wenjun Xiong,Zijian Luo,Daniel W. C. Ho,2024-03-26 This book focuses on the subject area of Network Systems and Control Theory providing a comprehensive examination of the dynamic behavior of networked systems operating under communication constraints It introduces innovative iterative learning control strategies that aim to ensure stability consistency and security of networked systems The field of networked systems has garnered significant interest from scientists and engineers across various disciplines including information electrical transportation life social and management sciences This book consistently addresses a wide range of issues related to networked systems emphasizing the critical impact of communication constraints on stability and security It highlights the effectiveness and importance of iterative learning methods in tackling these challenges Suitable for both undergraduate and graduate students interested in networked systems and iterative learning control this book also serves as a valuable resource for university faculty and engineers engaged in complex systems control theory research and real world applications Its broad appeal extends to professionals working in related fields seeking a deeper understanding of networked systems and their control mechanisms

Optimal Fractional-order Predictive PI Controllers Arun Mozhi Devan Panneer

Selvam,Fawnizu Azmadi Hussin,Rosdiazli Ibrahim,Kishore Bingi,Nagarajapandian M.,2022-11-01 This book presents the study to design develop and implement improved PI control techniques using dead time compensation structure

enhancements learning functions and fractional ordering parameters Two fractional order PI controllers are proposed and designed fractional order predictive PI and hybrid iterative learning based fractional order predictive PI controller Furthermore the proposed fractional order control strategies and filters are simulated over first and second order benchmark process models and further validated using the real time experimentation of the pilot pressure process plant In this book five chapters are structured with a proper sequential flow of details to provide a better understanding for the readers A general introduction to the controllers filters and optimization techniques is presented in Chapter 1 Reviews of the PI controllers family and their modifications are shown in the initial part of Chapter 2 followed by the development of the proposed fractional order predictive PI FOPPI controller with dead time compensation ability In the first part of chapter 3 a review of the PI based iterative learning controllers modified structures of the ILC and their modifications are presented Then the design of the proposed hybrid iterative learning controller based fractional order predictive PI controller based on the current cyclic feedback structure is presented Lastly the results and discussion of the proposed controller on benchmark process models and the real time experimentation of the pilot pressure process plant are given Chapter 4 presents the development of the proposed filtering techniques and their performance comparison with the conventional methods Chapter 5 proposes the improvement of the existing sine cosine algorithm SCA and arithmetic optimization algorithm AOA to form a novel arithmetic trigonometric optimization algorithm ATOA to accelerate the rate of convergence in lesser iterations with mitigation towards getting caught in the same local position The performance analysis of the optimization algorithm will be carried out on benchmark test functions and the real time pressure process plant

Iterative Learning Control for Equations with Fractional Derivatives and Impulses JinRong Wang, Shengda Liu, Michal Fečkan, 2021-12-10 This book introduces iterative learning control ILC and its applications to the new equations such as fractional order equations impulsive equations delay equations and multi agent systems which have not been presented in other books on conventional fields ILC is an important branch of intelligent control which is applicable to robotics process control and biological systems The fractional version of ILC updating laws and formation control are presented in this book ILC design for impulsive equations and inclusions are also established The broad variety of achieved results with rigorous proofs and many numerical examples make this book unique This book is useful for graduate students studying ILC involving fractional derivatives and impulsive conditions as well as for researchers working in pure and applied mathematics physics mechanics engineering biology and related disciplines

Advances in Neural Networks - ISNN 2007 Derong Liu, Zeng-Guang Hou, 2007-05-24 Annotation The three volume set LNCS 4491 4492 4493 constitutes the refereed proceedings of the 4th International Symposium on Neural Networks ISNN 2007 held in Nanjing China in June 2007 The 262 revised long papers and 192 revised short papers presented were carefully reviewed and selected from a total of 1 975 submissions The papers are organized in topical sections on neural fuzzy control neural networks for control applications adaptive dynamic programming and

reinforcement learning neural networks for nonlinear systems modeling robotics stability analysis of neural networks learning and approximation data mining and feature extraction chaos and synchronization neural fuzzy systems training and learning algorithms for neural networks neural network structures neural networks for pattern recognition SOMs ICA PCA biomedical applications feedforward neural networks recurrent neural networks neural networks for optimization support vector machines fault diagnosis detection communications and signal processing image video processing and applications of neural networks

Production Planning, Modeling and Control of Food Industry Processes Pablo Cano Marchal, Juan Gómez Ortega, Javier Gámez García, 2018-11-16 This book provides a new approach to the control of food transformation processes emphasizing the advantage of considering the system as a multivariable one and taking a holistic approach to the decision making process in the plant considering not only the technical but also the economic implications of these decisions In addition it presents a hierarchical structure for the global control of the plant and includes appropriate techniques for each of the control layers The book addresses the challenges of modeling food transformation processes using both traditional system identification techniques and where these prove impractical models based on expert knowledge and using fuzzy systems The construction of optimal controllers for each of these types of models is also discussed as a means to close a feedback loop on the higher level outputs of the process Finally the problem of production planning is covered from two standpoints the traditional batch sizing problem and the planning of production throughout the season Systematic season wide production planning is built upon the models constructed for the control of the plant and incorporates market and business specific information Examples based on the processing of various foodstuffs help to illustrate the text throughout while the book s closing chapter presents a case study on advances in the processing of olive oil Given its scope the book will primarily be of interest to two groups of readers food engineering practitioners and students who are familiar with the characteristics of food processes but have little or no background in control engineering and control engineering researchers students and practitioners whose situation is just the opposite and who wish to learn more about food engineering and its specific challenges for control Advances in Industrial Control reports and encourages the transfer of technology in control engineering The rapid development of control technology has an impact on all areas of the control discipline The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control

Dynamic Substructures, Vol. 4 Walter D'Ambrogio, Dan Roettgen, Maarten van der Seijs, 2025-08-07 Dynamics of Coupled Structures Volume 4 Proceedings of the 42nd IMAC A Conference and Exposition on Structural Dynamics 2024 the fourth volume of ten from the Conference brings together contributions to this important area of research and engineering The collection presents early findings and case studies on fundamental and applied aspects of the Dynamics of Coupled Structures including papers on Linear Joints Nonlinear Joints and Coupling Modal and Frequency Based Substructuring Round Robin Test Bed on Dynamic Substructuring Transfer Path Analysis and Force Estimation Interface Dynamics

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