

Mikael Johansson

Piecewise Linear Control Systems



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Mikael K.-J. Johansson



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Piecewise Linear Control Systems Mikael Johansson, 1999 Control and Estimation of Piecewise Affine Systems Jun Xu, Lihua Xie, 2014-04-21 As a powerful tool to study nonlinear systems and hybrid systems piecewise affine PWA systems have been widely applied to mechanical systems Control and Estimation of Piecewise Affine Systems presents several

research findings relating to the control and estimation of PWA systems in one unified view Chapters in this title discuss stability results of PWA systems using piecewise quadratic Lyapunov functions and piecewise homogeneous polynomial Lyapunov functions Explicit necessary and sufficient conditions for the controllability and reachability of a class of PWA systems are considered along with controller and estimator design methods for PWA systems using linear matrix inequality LMI and bilinear matrix inequality BMI techniques A PWA approach to a class of Takagi Sugeno fuzzy system is discussed in depth The book uses a number of mechanical systems such as disk servo systems to illustrate the advantages of the proposed methods Provides new insights on properties of PWA systems including stability stabilizability reachability and controllability Presents a unified framework for analysis and synthesis of both continuous time and discrete time PWA systems Presents novel approaches for stability analysis and control design based on the promising SOS techniques

Piecewise Linear Modeling and Analysis Domine Leenaerts, Wim M.G. van Bokhoven, 2013-03-09 Piecewise Linear PL approximation of non linear behaviour is a well known technique in synthesis and analysis of electrical networks However the PL description should be efficient in data storage and the description should allow simple retrieval of the stored information Furthermore it would be useful if the model description could handle a large class of piecewise linear mappings Piecewise Linear Modeling and Analysis explains in detail all possible model descriptions for efficiently storing piecewise linear functions starting with the Chua descriptions Detailed explanation on how the model parameter can be obtained for a given mapping is provided and demonstrated by examples The models are ranked to compare them and to show which model can handle the largest class of PL mappings All model descriptions are implicitly related to the Linear Complementarity Problem and most solution techniques for this problem like Katzenelson and Lemke are discussed according to examples that are explained in detail To analyse PL electrical networks a simulator is mandatory Piecewise Linear Modeling and Analysis provides a detailed outline of a possible PL simulator including pseudo programming code Several simulation domains like transient AC and distortion are discussed The book explains the attractive features of PL simulators with respect to mixed level and mixed signal simulation while paying due regard also to hierarchical simulation Piecewise Linear Modeling and Analysis shows in detail how many existing components in electrical networks can be modeled These range from digital logic and analog basic elements such as transistors to complex systems like Phase Locked Loops and detection systems Simulation results are also provided The book concludes with a discussion on how to find multiple solutions for PL functions or networks Again the most common techniques are outlined using clear examples Piecewise Linear Modeling and Analysis is an indispensable guide for researchers and designers interested in network theory network synthesis and network analysis

Stabilisation Studies for Piecewise Linear Control Systems Christos Yfoulis, 2000

Linear Controller Design Stephen P. Boyd, Craig H. Barratt, 1991

Linear Feedback Control Dingyu Xue, YangQuan Chen, Derek P. Atherton, 2007-01-01 Less mathematics and more working examples make this textbook suitable for almost any type of user

Piecewise-smooth Dynamical

Systems Mario Bernardo, Chris Budd, Alan Richard Champneys, Piotr Kowalczyk, 2008-01-15 This book presents a coherent framework for understanding the dynamics of piecewise smooth and hybrid systems An informal introduction expounds the ubiquity of such models via numerous The results are presented in an informal style and illustrated with many examples The book is aimed at a wide audience of applied mathematicians engineers and scientists at the beginning postgraduate level Almost no mathematical background is assumed other than basic calculus and algebra

Structural Dynamics Harry Grundmann, Gerhart I. Schuëller, 2002 The proceedings contain contributions presented by authors from more than 30 countries at EURO DYN 2002 The proceedings show recent scientific developments as well as practical applications they cover the fields of theory of vibrations nonlinear vibrations stochastic dynamics vibrations of structured elements wave propagation and structure borne sound including questions of fatigue and damping Emphasis is laid on vibrations of bridges buildings railway structures as well as on the fields of wind and earthquake engineering respectively Enriched by a number of keynote lectures and organized sessions the two volumes of the proceedings present an overview of the state of the art of the whole field of structural dynamics and the tendencies of its further development

Hybrid Systems: Computation and Control Maria D. Di Benedetto, Alberto Sangiovanni-Vincentelli, 2001-03-14 This volume contains the proceedings of the Fourth Workshop on Hybrid Systems Computation and Control HSCC 2001 held in Rome Italy on March 28 30 2001 The Workshop on Hybrid Systems attracts researchers from industry and academia interested in modeling analysis synthesis and implementation of dynamic and reactive systems involving both discrete integer logical symbolic and continuous behaviors It is a forum for the discussion of the test developments in all aspects of hybrid systems including formal models and computational representations algorithms and heuristics computational tools and new challenging applications The Fourth HSCC International Workshop continues the series of workshops held in Grenoble France HART 97 Berkeley California USA HSCC 98 Nijmegen The Netherlands HSCC 99 and Pittsburgh Pennsylvania USA HSCC 2000 Proceedings of these workshops have been published in the Lecture Notes in Computer Science LNCS series by Springer Verlag In line with the beautiful work that led to the design of the palace in which the workshop was held Palazzo Lancellotti in Rome resulting from the collaboration of many artists and architects of different backgrounds the challenge faced by the hybrid system community is to harmonize and extract the best from two main research areas computer science and control theory

Periodic Systems Sergio Bittanti, Patrizio Colaneri, 2009 This book offers a comprehensive treatment of the theory of periodic systems including the problems of filtering and control It covers an array of topics presenting an overview of the field and focusing on discrete time signals and systems

Nonlinear Industrial Control Systems Michael J. Grimble, Paweł Majecki, 2020-05-19 Nonlinear Industrial Control Systems presents a range of mostly optimisation based methods for severely nonlinear systems it discusses feedforward and feedback control and tracking control systems design The plant models and design algorithms are provided in a MATLAB toolbox that enable both academic examples and industrial application studies to be repeated and

evaluated taking into account practical application and implementation problems The text makes nonlinear control theory accessible to readers having only a background in linear systems and concentrates on real applications of nonlinear control It covers different ways of modelling nonlinear systems including state space polynomial based linear parameter varying state dependent and hybrid design techniques for nonlinear optimal control including generalised minimum variance model predictive control quadratic Gaussian factorised and H design methods design philosophies that are suitable for aerospace automotive marine process control energy systems robotics servo systems and manufacturing steps in design procedures that are illustrated in design studies to define cost functions and cope with problems such as disturbance rejection uncertainties and integral wind up and baseline non optimal control techniques such as nonlinear Smith predictors feedback linearization sliding mode control and nonlinear PID Nonlinear Industrial Control Systems is valuable to engineers in industry dealing with actual nonlinear systems It provides students with a comprehensive range of techniques and examples for solving real nonlinear control design problems

Optimal Control of Constrained Piecewise Affine Systems Frank

Christophersen, 2009-09-02 One of the most important and challenging problems in control is the derivation of systematic tools for the computation of controllers for constrained nonlinear systems that can guarantee closed loop stability feasibility and optimality with respect to some performance index This book focuses on the efficient and systematic computation of closed form optimal controllers for the powerful class of fast sampled constrained piecewise affine systems These systems may exhibit rather complex behavior and are equivalent to many other hybrid system formalisms combining continuous valued dynamics with logic rules reported in the literature Furthermore piecewise affine systems are a useful modeling tool that can capture general nonlinearities e g by local approximation constraints saturations switches and other hybrid modeling phenomena The first part of the book presents an introduction to the mathematical and control theoretical background material needed for the full understanding of the book The second part provides an in depth look at the computational and control theoretic properties of the controllers and part three presents different analysis and post processing techniques

A New Method for the Analysis of Piecewise Linear Control Systems, with Particular Application to Relay Controls Robert Hugh Macmillan, 1955

Predictive Control for Linear and Hybrid Systems

Francesco Borrelli, Alberto Bemporad, Manfred Morari, 2017-06-22 With a simple approach that includes real time applications and algorithms this book covers the theory of model predictive control MPC

Iterative Methods for Sparse Linear Systems Yousef Saad, 2003-04-01 Mathematics of Computing General

New Trends in Design of Control Systems 1994 J. Mikles, M. Huba, 2014-05-23 Computer control systems are developing rapidly therefore an insight of the latest trends in the design of control systems will increase the success of future developments This publication brings together the latest key papers on research and development trends in this field allowing both academics and industrial practitioners to find new insights and gain from each other's experience

Hierarchical Linear Modeling G. David

Garson, 2012-04-10 Hierarchical Linear Modeling provides a brief easy to read guide to implementing hierarchical linear modeling using three leading software platforms followed by a set of original how to application articles following a standardized instructional format The Guide portion consists of five chapters that provide an overview of HLM discussion of methodological assumptions and parallel worked model examples in SPSS SAS and HLM software The Applications portion consists of ten contributions in which authors provide step by step presentations of how HLM is implemented and reported for introductory to intermediate applications The book covers the three most widely accessible statistical programs for multilevel modeling rather than just focusing on one An excellent tool for researchers who are beginning to learn multilevel modeling as well as a great resource for experienced researchers who want to learn a different statistical program for multilevel models Debbie L Hahs Vaughn University of Central Florida The intelligent use of the examples helps explain both the conceptual framework of HLM and its basic individual applications Luis L Cabo Mercyhurst College **European Control Conference 1993** , 1993-06-28 Proceedings of the European Control Conference 1993 Groningen Netherlands June 28 July 1 1993

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