



LECTURE NOTES IN CONTROL  
AND INFORMATION SCIENCES

296

T. Matsuo  
Y. Hasegawa

# Realization Theory of Discrete-Time Dynamical Systems



Springer

# Realization Theory Of Discretetime Dynamical Systems

## Lecture Notes In Control And Information Sciences 296

**Wolfgang Herbordt**



## **Realization Theory Of Discrete-Time Dynamical Systems Lecture Notes In Control And Information Sciences 296:**

**Realization Theory of Discrete-Time Dynamical Systems** Tsuyoshi Matsuo, Yasumichi Hasegawa, 2003-10-08 This monograph extends Realization Theory to the discrete time domain. It includes new results and constructs a new and very wide inclusion relation for various non linear dynamical systems. After establishing some features of discrete time dynamical systems it presents results concerning systems which are proposed by the authors for the first time. They introduce General Dynamical Systems, Linear Representation Systems, Affine Dynamical Systems, Pseudo Linear Systems, Almost Linear Systems, and So called Linear Systems for discrete time and demonstrate the relationship between them and the other dynamical systems. This book is intended for graduate students and researchers who study control theory. *Approximate and Noisy Realization of Discrete-Time Dynamical Systems* Yasumichi Hasegawa, 2008-06-11 This monograph deals with approximation and noise cancellation of dynamical systems which include linear and nonlinear input output relations. It will be of special interest to researchers, engineers and graduate students who have specialized in filtering theory and system theory. From noisy or noiseless data reduction will be made. A new method which reduces noise or model information will be proposed. Using this method will allow model description to be treated as noise reduction or model reduction. As proof of the efficacy this monograph provides new results and their extensions which can also be applied to nonlinear dynamical systems. To present the effectiveness of our method many actual examples of noise and model information reduction will also be provided. Using the analysis of state space approach the model reduction problem may have become a major theme of technology after 1966 for emphasizing efficiency in the fields of control, economy, numerical analysis and others. Noise reduction problems in the analysis of noisy dynamical systems may have become a major theme of technology after 1974 for emphasizing efficiency in control. However the subjects of these researches have been mainly concentrated in linear systems. In common model reduction of linear systems in use today a singular value decomposition of a Hankel matrix is used to find a reduced order model. However the existence of the conditions of the reduced order model are derived without evaluation of the resultant model. In the common typical noise reduction of linear systems in use today the order and parameters of the systems are determined by minimizing information criterion. Approximate and noisy realization problems for input output relations can be roughly stated as follows: A The approximate realization problem: For any input output map find one mathematical model such that it is similar to the input output map and has a lower dimension than the given minimal state space of a dynamical system which has the same behavior to the input output map. B The noisy realization problem. Control Problems of Discrete-Time Dynamical Systems Yasumichi Hasegawa, 2015-01-20 This monograph deals with control problems of discrete time dynamical systems which include linear and nonlinear input output relations. In its present second enlarged edition the control problems of linear and non linear dynamical systems will be solved as algebraically as possible. Adaptive control problems are newly proposed and solved for dynamical systems which satisfy the time invariant condition. The

monograph provides new results and their extensions which can also be more applicable for nonlinear dynamical systems A new method which produces manipulated inputs is presented in the sense of state control and output control To present the effectiveness of the method many numerical examples of control problems are provided as well

**System Theory of Continuous Time Finite Dimensional Dynamical Systems** Yasumichi Hasegawa, 2019-09-26 This book discusses the realization and control problems of finite dimensional dynamical systems which contain linear and nonlinear systems The author focuses on algebraic methods for the discussion of control problems of linear and non linear dynamical systems The book contains detailed examples to showcase the effectiveness of the presented method The target audience comprises primarily research experts in the field of control theory but the book may also be beneficial for graduate students alike

Realization Theory and Design of Digital Images Yasumichi Hasegawa, Tatsuo Suzuki, 2006-10-20 This monograph offers a thorough examination of the description and design of digital images Regarding digital images as special input output relations in the authors previous book in the series Lecture Notes in Control and Information Sciences the description problem of digital images is transformed into the realization problem of digital images This book is intended for researchers and graduate students who specialize in image processing and system theory

**Algebraically Approximate and Noisy Realization of Discrete-Time Systems and Digital Images** Yasumichi Hasegawa, 2009-09-30 This monograph deals with approximation and noise cancellation of dynamical systems which include linear and nonlinear input output relationships It also deal with approximation and noise cancellation of two dimensional arrays It will be of special interest to researchers engineers and graduate students who have specialized in filtering theory and system theory and digital images This monograph is composed of two parts Part I and Part II will deal with approximation and noise cancellation of dynamical systems or digital images respectively From noiseless or noisy data reduction will be made A method which reduces model information or noise was proposed in the reference vol 376 in LNCIS Hasegawa 2008 Using this method will allow model description to be treated as noise reduction or model reduction without having to bother for example with solving many partial differential equations This monograph will propose a new and easy method which produces the same results as the method treated in the reference As proof of its advantageous effect this monograph provides a new law in the sense of numerical experiments The new and easy method is executed using the algebraic calculations without solving partial differential equations For our purpose many actual examples of model information and noise reduction will also be provided Using the analysis of state space approach the model reduction problem may have become a major theme of technology after 1966 for emphasizing efficiency in the fields of control economy numerical analysis and others

**Switched and Impulsive Systems** Zhengguo Li, Yengchai Soh, Changyun Wen, 2005-02-16 In this volume the important concept of switched and impulsive control is discussed with a wide field of applications in the analysis and control of complex systems This monograph provides the reader with a comprehensive coverage of switched and impulsive systems including new original work with various applications such as

switched server systems scalable video coding systems chaotic based secure communication or quality of service on the internet Switched and Impulsive Systems can be used as a reference or a text for a course at graduate level

*Explicit Stability Conditions for Continuous Systems* Michael I. Gil, 2005-03-17 Explicit Stability Conditions for Continuous Systems deals with non autonomous linear and nonlinear continuous finite dimensional systems Explicit conditions for the asymptotic absolute input to state and orbital stabilities are discussed This monograph provides new tools for specialists in control system theory and stability theory of ordinary differential equations with a special emphasis on the Aizerman problem A systematic exposition of the approach to stability analysis based on estimates for matrix valued functions is suggested and various classes of systems are investigated from a unified viewpoint

*Identification of Nonlinear Systems Using Neural Networks and Polynomial Models* Andrzej Janczak, 2004-11-18 This monograph systematically presents the existing identification methods of nonlinear systems using the block oriented approach It surveys various known approaches to the identification of Wiener and Hammerstein systems which are applicable to both neural network and polynomial models The book gives a comparative study of their gradient approximation accuracy computational complexity and convergence rates and furthermore presents some new and original methods concerning the model parameter adjusting with gradient based techniques Identification of Nonlinear Systems Using Neural Networks and Polynomial Models is useful for researchers engineers and graduate students in nonlinear systems and neural network theory

**Cooperative Control** Vijay Kumar, Naomi Leonard, A. Stephen Morse, 2004-10-20 Are there universal principles of coordinated group motion and if so what might they be This carefully edited book presents how natural groupings such as fish schools bird flocks deer herds etc coordinate themselves and move so flawlessly often without an apparent leader or any form of centralized control It shows how the underlying principles of cooperative control may be used for groups of mobile autonomous agents to help enable a large group of autonomous robotic vehicles in the air on land or sea or underwater to collectively accomplish useful tasks such as distributed adaptive scientific data gathering search and rescue or reconnaissance

**H-infinity Control and Estimation of State-multiplicative Linear Systems** Eli Gershon, Uri Shaked, Isaac Yaesh, 2005-06-24 Multiplicative noise appears in systems where the process or measurement noise levels depend on the system state vector Such systems are relevant for example in radar measurements where larger ranges involve higher noise level This monograph embodies a comprehensive survey of the relevant literature with basic problems being formulated and solved by applying various techniques including game theory linear matrix inequalities and Lyapunov parameter dependent functions Topics covered include convex  $H_2$  and  $H_\infty$  norms analysis of systems with multiplicative noise state feedback control and state estimation of systems with multiplicative noise dynamic and static output feedback of stochastic bilinear systems tracking controllers for stochastic bilinear systems utilizing preview information Various examples which demonstrate the applicability of the theory to practical control engineering problems are considered two such examples are taken from the

aerospace and guidance control areas      **Hybrid Estimation of Complex Systems** Michael W. Hofbaur, 2005-06-09 This monograph provides a tool set for hybrid estimation that can successfully monitor the behavior of complex artifacts with a large number of possible operational and failure modes such as production plants automotive or aeronautic systems and autonomous robots For this purpose ideas from the fields of System Theory and Artificial Intelligence are taken and hybrid estimation is reformulated as a search problem This allows to focus the estimation onto highly probably operational modes without missing symptoms that might be hidden among the noise in the system Additionally a novel approach to continue hybrid estimation in the presence of unknown behavioral modes and to automate system analysis and synthesis tasks for on line operation are presented This leads to a flexible model based hybrid estimation scheme for complex artifacts that robustly copes with unforeseen situations      *Perturbation Compensator based Robust Tracking Control and State Estimation of Mechanical Systems* SangJoo Kwon, Wan Kyun Chung, 2004-07-07 This monograph investigates a practical way to achieve robust motion control and state estimation Kalman filtering of mechanical systems which is a promising approach in terms of the perturbation compensator The book presents novel approaches for design and analysis of perturbation observers as well as an extension to robust motion control and robust state estimation The book is written in a self contained manner including experimental results in each chapter clearly validating the developed theories      **Control of Redundant Robot Manipulators** Rajni V. Patel, F. Shadpey, 2005-05-04 This monograph provides a comprehensive and thorough treatment of the problem of controlling a redundant robot manipulator It presents the latest research from the field with a good balance between theory and practice All theoretical developments are verified both via simulation and experimental work on an actual prototype redundant robot manipulator This book is the first text aimed at graduate students and researchers working in the area of redundant manipulators giving a comprehensive coverage of control of redundant robot manipulators from the viewpoint of theory and experimentation      **American Book Publishing Record**, 2004      **Sound Capture for Human / Machine Interfaces** Wolfgang Herbordt, 2005-03-22 With a continuously increasing desire for natural and comfortable human machine interaction the acoustic interface of any terminal for multimedia or telecommunication services is challenged to allow seamless and hands free audio communication Sound Capture for Human Machine Interfaces introduces the practical aspects of microphone array signal processing and presents various combinations of beamforming and acoustic echo cancellation      *Positive Systems*, 2006      **An Introduction to Hybrid Dynamical Systems** Arjan J. van der Schaft, Hans Schumacher, 2007-10-03 This book is about dynamical systems that are hybrid in the sense that they contain both continuous and discrete state variables Recently there has been increased research interest in the study of the interaction between discrete and continuous dynamics The present volume provides a first attempt in book form to bring together concepts and methods dealing with hybrid systems from various areas and to look at these from a unified perspective The authors have chosen a mode of exposition that is largely based on illustrative examples rather than on the

abstract theorem proof format because the systematic study of hybrid systems is still in its infancy The examples are taken from many different application areas ranging from power converters to communication protocols and from chaos to mathematical finance Subjects covered include the following definition of hybrid systems description formats existence and uniqueness of solutions special subclasses variable structure systems complementarity systems reachability and verification stability and stabilizability control design methods The book will be of interest to scientists from a wide range of disciplines including computer science control theory dynamical system theory systems modeling and simulation and operations research     **Mathematical Reviews** ,2005     **Instrumental Variable Methods for System Identification** T. Söderström,P.G. Stoica,1983-09

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