Mathematics and Its Applications

A. I. Matasov

Estimators for Uncertain Dynamic Systems

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Estimators For Uncertain Dynamic Systems

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Estimators For Uncertain Dynamic Systems:

Estimators for Uncertain Dynamic Systems A.I. Matasov,2012-10-06 When solving the control and design problems in aerospace and naval engi neering energetics economics biology etc we need to know the state of investigated dynamic processes The presence of inherent uncertainties in the description of these processes and of noises in measurement devices leads to the necessity to construct the estimators for corresponding dynamic systems The estimators recover the required information about system state from mea surement data An attempt to solve the estimation problems in an optimal way results in the formulation of different variational problems The type and complexity of these variational problems depend on the process model the model of uncertainties and the estimation performance criterion A solution of variational problem determines an optimal estimator Howerever there exist at least two reasons why we use nonoptimal esti mators The first reason is that the numerical algorithms for solving the corresponding variational problems can be very difficult for numerical imple mentation For example the dimension of these algorithms can be very high **Estimators for Uncertain Dynamic Systems** A.I. Matasov,2012-12-06 When solving the control and design problems in aerospace and naval engi neering energetics economics biology etc we need to know the state of investigated dynamic processes The presence of inherent uncertainties in the description of these processes and of noises in measurement devices leads to the necessity to construct the estimators for corresponding dynamic systems The estimators recover the required information about system state from mea surement data An attempt to solve the estimation problems in an optimal way results in the formulation of different variational problems The type and complexity of these variational problems depend on the process model the model of uncertainties and the estimation performance criterion A solution of variational problem determines an optimal estimator Howerever there exist at least two reasons why we use nonoptimal esti mators The first reason is that the numerical algorithms for solving the corresponding variational problems can be very difficult for numerical imple mentation For example the dimension of these algorithms can be very high Uncertain Dynamic Systems Fred C. Schweppe,1973

IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty H.Y. Hu,E. Kreuzer,2007-08-26 This is a state of the art treatise on the problems of both nonlinearity and uncertainty in the dynamics and control of engineering systems The concept of dynamics and control implies the combination of dynamic analysis and control synthesis It is essential to gain insight into the dynamics of a nonlinear system with uncertainty if any new control strategy is designed to utilize nonlinearity *Output Feedback Variable Structure Controllers and State Estimators for Uncertain Dynamic Systems* Stanislaw H. Żak,Stefen Hui,1991 Abstract In this paper we propose a new class of output feedback variable structure controllers and state estimators observers for uncertain dynamic systems with bounded uncertainties No statistical information about the uncertain elements is assumed A variable structure systems VSS approach together with the geometric approach to the analysis and synthesis of system zeros are employed in the synthesis of the proposed output feedback

controllers and state estimators The role of system zeros in the output feedback stabilization and state estimation using the VSS approach is discussed Numerical examples included illustrate the feasibility of the proposed stabilization and state estimation schemes Control and Dynamic Systems V53: High Performance Systems Techniques and Applications C.T. Leonides,2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 53 High Performance Systems Techniques and Applications covers the significant research works on the issues and applications of high performance control systems techniques This book is divided into 11 chapters and starts with an examination of the contribution of computing power with advances in theory in global optimization The next chapters present robust solution techniques for combined filtering and parameter estimation in discrete time and the design and analysis of model reference adaptive control techniques for both continuous and discrete time multivariable plants with additive and multiplicative unmodeled dynamics These topics are followed by discussions of the decentralized adaptive control robust recursive estimation of states and parameters of bilinear systems the design of robust control systems under uncertainty cases and the techniques for state estimation for linear stationary dynamic systems that are subject to unknown time varying plant and output disturbances Other chapters deal with the sliding control algorithm the techniques in robust broadband beamforming and the different categories of robust robotic controllers The final chapter looks into the problems and issues of performance and versatility of non linear control and the application of artificial neural networks This book is of great value to process control mechanical and design engineers *Control of Uncertain Dynamic Systems* Shankar P. Bhattacharyya,Lee H. Keel,2020-09-23 This book is a collection of 34 papers presented by leading researchers at the International Workshop on Robust Control held in San Antonio Texas in March 1991 The common theme tying these papers together is the analysis synthesis and design of control systems subject to various uncertainties The papers describe the latest results in parametric understanding H8 uncertainty l1 optical control and Quantitative Feedback Theory QFT The book is the first to bring together all the diverse points of view addressing the robust control problem and should strongly influence development in the robust control field for years to come For this reason control theorists engineers and applied mathematicians should consider it a crucial acquisition for their libraries *Control and Dynamic Systems V34: Advances in Control Mechanics Part 1 of 2* C.T. Leonides,2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 34 Advances in Control Mechanics Part 1 of 2 presents the fundamental aspects of mechanical systems control theory This book deals with microburst a severe meteorological condition significant to aircraft control Organized into seven chapters this volume begins with an overview of the problem of stable control of an aircraft subjected to windshear caused by microburst This text then examines the results concerning control of an aircraft under windshear conditions Other chapters consider the robust control problem using the variable structure control method This book discusses as well the problem of finding zeros of a nonlinear vector function by using methods of dynamical systems analysis The final chapter deals with the role of singularities and

their effect on the global trait of dynamical systems This book is a valuable resource for mechanical and materials engineers Research workers and students will also find this book useful *ICT: Applications and Social Interfaces* Amit Joshi,Roshan Ragel,Mufti Mahmud,S. Kartik,2025-08-13 This book contains best selected research papers presented at ICTCS 2024 Ninth International Conference on Information and Communication Technology for Competitive Strategies The conference will be held in Jaipur India during 19 21 December 2024 The book covers state of the art as well as emerging topics pertaining to ICT and effective strategies for its implementation for engineering and managerial applications This book contains papers mainly focused on ICT for computation algorithms and data analytics and IT security The work is presented in ten volumes

Introduction to Uncertainty Quantification T.J. Sullivan,2015-12-14 This text provides a framework in which the main objectives of the field of uncertainty quantification UQ are defined and an overview of the range of mathematical methods by which they can be achieved Complete with exercises throughout the book will equip readers with both theoretical understanding and practical experience of the key mathematical and algorithmic tools underlying the treatment of uncertainty in modern applied mathematics Students and readers alike are encouraged to apply the mathematical methods discussed in this book to their own favorite problems to understand their strengths and weaknesses also making the text suitable for a self study Uncertainty quantification is a topic of increasing practical importance at the intersection of applied mathematics statistics computation and numerous application areas in science and engineering This text is designed as an introduction to UQ for senior undergraduate and graduate students with a mathematical or statistical background and also for researchers from the mathematical sciences or from applications areas who are interested in the field T J Sullivan was Warwick Zeeman Lecturer at the Mathematics Institute of the University of Warwick United Kingdom from 2012 to 2015 Since 2015 he is Junior Professor of Applied Mathematics at the Free University of Berlin Germany with specialism in Uncertainty and Risk Quantification **Uncertainty Modelling in Data Science** Sébastien Destercke,Thierry Denoeux,María Ángeles Gil,Przemyslaw Grzegorzewski,Olgierd Hryniewicz,2018-07-24 This book features 29 peer reviewed papers presented at the 9th International Conference on Soft Methods in Probability and Statistics SMPS 2018 which was held in conjunction with the 5th International Conference on Belief Functions BELIEF 2018 in Compi gne France on September 17 21 2018 It includes foundational methodological and applied contributions on topics as varied as imprecise data handling linguistic summaries model coherence imprecise Markov chains and robust optimisation These proceedings were produced using EasyChair Over recent decades interest in extensions and alternatives to probability and statistics has increased significantly in diverse areas including decision making data mining and machine learning and optimisation This interest stems from the need to enrich existing models in order to include different facets of uncertainty like ignorance vagueness randomness conflict or imprecision Frameworks such as rough sets fuzzy sets fuzzy random variables random sets belief functions possibility theory imprecise probabilities lower previsions and desirable gambles all share this goal but have

emerged from different needs The advances results and tools presented in this book are important in the ubiquitous and fast growing fields of data science machine learning and artificial intelligence Indeed an important aspect of some of the learned predictive models is the trust placed in them Modelling the uncertainty associated with the data and the models carefully and with principled methods is one of the means of increasing this trust as the model will then be able to distinguish between reliable and less reliable predictions In addition extensions such as fuzzy sets can be explicitly designed to provide interpretable predictive models facilitating user interaction and increasing trust Domain of Attraction Graziano Chesi,2011-08-31 For nonlinear dynamical systems which represent the majority of real devices any study of stability requires the investigation of the domain of attraction of an equilibrium point i e the set of initial conditions from which the trajectory of the system converges to equilibrium Unfortunately both estimating and attempting to control the domain of attraction are very difficult problems because of the complex relationship of this set with the model of the system Domain of Attraction addresses the estimation and control of the domain of attraction of equilibrium points via SOS programming i e optimization techniques based on the sum of squares of polynomials SOS that have been recently developed and that amount to solving convex problems with linear matrix inequality constraints A unified framework for addressing these issues is presented for in various cases depending on the nature of the nonlinear systems considered including the cases of polynomial non polynomial certain and uncertain systems The methods proposed are illustrated various example systems such as electric circuits mechanical devices and nuclear plants Domain of Attraction also deals with related problems that can be considered within the proposed framework such as characterizing the equilibrium points and bounding the trajectories of nonlinear systems and offers a concise and simple description of the main features of SOS programming which can be used for general purpose in research and teaching **Encyclopedia of Optimization** Christodoulos A. Floudas,Panos M. Pardalos,2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling **Fault Estimation for Network Systems via Intermediate Estimator** Jun-Wei Zhu,Xin Wang,Guang-Hong Yang,2022-10-29 This book is concerned with the fault estimation problem for network systems Firstly to improve the existing adaptive fault estimation observer a novel so called intermediate estimator is proposed to identify the actuator or sensor faults in dynamic control systems with high accuracy and convergence speed On this basis by exploiting the properties of network systems such as multi agent systems and large scale interconnected systems this book introduces the concept of distributed intermediate estimator faults in different nodes can be estimated simultaneously

meanwhile satisfactory consensus performances can be obtained via compensation based protocols Finally the characteristics of the new fault estimation methodology are verified and discussed by a series of experimental results on networked multi axis motion control systems This book can be used as a reference book for researcher and designer in the field of fault diagnosis and fault tolerant control and can also be used as a reference book for senior undergraduate and graduate students in colleges and universities **Control and Dynamic Systems V50: Robust Control System Techniques and Applications** C.T. Leonides,2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 50 Robust Control System Techniques and Applications Part 1 of 2 is a two volume sequence devoted to the issues and application of robust control systems techniques This volume is composed of 10 chapters and begins with a presentation of the important techniques for dealing with conflicting design objectives in control systems The subsequent chapters describe the robustness techniques of systems using differential difference equations the design of a wide class of robust nonlinear systems the techniques for dealing with the problems resulting from the use of observers in robust systems design and the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties These topics are followed by discussions of the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties and for incorporating adaptive control techniques into a non adaptive robust control design Other chapters present techniques for achieving exponential and robust stability for a rather general class of nonlinear systems techniques in modeling uncertain dynamics for robust control systems design and techniques for the optimal synthesis of these systems The last chapters provide a generalized eigenproblem solution for both singular and nonsingular system cases These chapters also look into the stability robustness design for discrete time systems This book will be of value to process and systems engineers designers and researchers **Stability, Control and Differential Games** Alexander Tarasyev,Vyacheslav Maksimov,Tatiana Filippova,2020-05-29 This book presents the proceedings of the International Conference Stability Control Differential Games SCDG2019 September 16 20 2019 Yekaterinburg Russia organized by the Krasovskii Institute of Mathematics and Mechanics of the Ural Branch of the Russian Academy of Sciences Discussing the latest advances in the theory of optimal control stability theory and differential games it also demonstrates the application of new techniques and numerical algorithms to solve problems in robotics mechatronics power and energy systems economics and ecology Further the book includes fundamental results in control theory stability theory and differential games presented at the conference as well as a number of chapters focusing on novel approaches in solving important applied problems in control and optimization Lastly it evaluates recent major accomplishments and forecasts developments in various up and coming areas such as hybrid systems model predictive control Hamilton Jacobi equations and advanced estimation algorithms *Indoor Navigation Strategies for Aerial Autonomous Systems* Pedro Castillo-Garcia,Laura Elena Munoz Hernandez,Pedro Garcia Gil,2016-11-10 Indoor Navigation Strategies for Aerial Autonomous Systems presents

the necessary and sufficient theoretical basis for those interested in working in unmanned aerial vehicles providing three different approaches to mathematically represent the dynamics of an aerial vehicle The book contains detailed information on fusion inertial measurements for orientation stabilization and its validation in flight tests also proposing substantial theoretical and practical validation for improving the dropped or noised signals In addition the book contains different strategies to control and navigate aerial systems The comprehensive information will be of interest to both researchers and practitioners working in automatic control mechatronics robotics and UAVs helping them improve research and motivating them to build a test bed for future projects Provides substantial information on nonlinear control approaches and their validation in flight tests Details in observer delay schemes that can be applied in real time Teaches how an IMU is built and how they can improve the performance of their system when applying observers or predictors Improves prototypes with tactics for proposed nonlinear schemes **13th Chaotic Modeling and Simulation International Conference** Christos H. Skiadas,Yiannis Dimotikalis,2021-12-14 Gathering the proceedings of the 13th CHAOS2020 International Conference this book highlights recent developments in nonlinear dynamical and complex systems The conference was intended to provide an essential forum for Scientists and Engineers to exchange ideas methods and techniques in the field of Nonlinear Dynamics Chaos Fractals and their applications in General Science and the Engineering Sciences The respective chapters address key methods empirical data and computer techniques as well as major theoretical advances in the applied nonlinear field Beyond showcasing the state of the art the book will help academic and industrial researchers alike apply chaotic theory in their studies Chassis-Domain-Oriented Dynamic Control for Autonomous Vehicles Shuo Cheng,Peng Dong,Xiangyang Xu,Shuhan Wang,Yanfang Liu,2025-09-03 Over seven detail rich chapters this book comprehensively describes autonomous vehicle chassis modeling and control chassis domain dynamic control the estimation of essential dynamic states research on motion planning the development of chassis coordinated control and related topics This book first summarizes vehicle dynamic modeling and control and provides the background and related topics for chassis domain dynamic control It then presents the motivations of chassis domain control and introduces its conceptual framework The book then focuses on the identification of tire road interactions which contain lateral longitudinal and vertical tire forces before then discussing the estimation of essential dynamic states which represent vehicle handling stability status and the observation of road surface coefficient The quantitative evaluation of vehicle chassis domain performance is then provided with the rigorous definition and design of a comprehensive metric for assessing chassis dynamic performance Next the book instructs readers on the chassis domain dynamic aware motion planning for autonomous vehicles and the multi objective multi subsystem coordinated control Finally the authors present their conclusions and future recommendations for the advanced control of autonomous vehicles The content and structure of this book will enable readers to address the high complexity and unpredictability of traffic conditions along with the strong nonlinearity of vehicle dynamics during maneuvers to facilitate the safe and

coordinated operations of chassis subsystems This will further the advancement of autonomous vehicles as the automobile industry transitions into the intelligent age This is a vital guide for readers from various expertise backgrounds Advanced undergraduate and postgraduate students who study vehicle engineering will benefit from the descriptions of theoretical foundations and practical methodologies Engineers and researchers will also benefit from the unique insights into modeling and control technologies for autonomous vehicles **Model Validation and Uncertainty Quantification, Volume 3** Sez Atamturktur,Tyler Schoenherr,Babak Moaveni,Costas Papadimitriou,2025-08-07 Model Validation and Uncertainty Quantifi cation Volume 3 Proceedings of the 34th IMAC A Conference and Exposition on Dynamics of Multiphysical Systems From Active Materials to Vibroacoustics 2016 the third 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 Structural Dynamics including papers on Uncertainty Quantification Model Validation Uncertainty Propagation in Structural Dynamics Bayesian Markov Chain Monte Carlo Methods Practical Applications of MVUQ Advances in MVUQ Model Updating Robustness in Design Validation Verification Validation Methods

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