

Dawei Shi
Ling Shi
Tongwen Chen

Event- Based State Estimation

A Stochastic Perspective

Online Event Based State Estimation Stochastic Perspective

RJ Alexander



Online Event Based State Estimation Stochastic Perspective:

Event-Based State Estimation Dawei Shi,Ling Shi,Tongwen Chen,2015-11-19 This book explores event based estimation problems It shows how several stochastic approaches are developed to maintain estimation performance when sensors perform their updates at slower rates only when needed The self contained presentation makes this book suitable for readers with no more than a basic knowledge of probability analysis matrix algebra and linear systems The introduction and literature review provide information while the main content deals with estimation problems from four distinct angles in a stochastic setting using numerous illustrative examples and comparisons The text elucidates both theoretical developments and their applications and is rounded out by a review of open problems This book is a valuable resource for researchers and students who wish to expand their knowledge and work in the area of event triggered systems At the same time engineers and practitioners in industrial process control will benefit from the event triggering technique that reduces communication costs and improves energy efficiency in wireless automation applications

Variance-Constrained Filtering for Stochastic Complex Systems Jun Hu,Zidong Wang,Chaoqing Jia,2025-04-29 This book is concerned with the variance constrained optimized filtering problems and their potential applications for nonlinear time varying dynamical systems The distinguished features of this book are highlighted as follows 1 A unified framework is provided for handling the variance constrained filtering problems of nonlinear time varying dynamical systems with incomplete information 2 The application potentials of variance constrained optimized filtering in networked time varying dynamical systems are outlined It contains some new concepts new models and new methodologies with practical significance in control engineering and signal processing It is a collection of several research results and thereby serves as a useful reference for upper undergraduate postgraduate and engineers who are interested in studying i the variance constrained filtering ii recent advances affected by incomplete information and iii potential applications in practical engineering systems

Event-Based Control and Signal Processing Marek Miskowicz,2018-09-03 Event based systems are a class of reactive systems deployed in a wide spectrum of engineering disciplines including control communication signal processing and electronic instrumentation Activities in event based systems are triggered in response to events usually representing a significant change of the state of controlled or monitored physical variables Event based systems adopt a model of calls for resources only if it is necessary and therefore they are characterized by efficient utilization of communication bandwidth computation capability and energy budget Currently the economical use of constrained technical resources is a critical issue in various application domains because many systems become increasingly networked wireless and spatially distributed Event Based Control and Signal Processing examines the event based paradigm in control communication and signal processing with a focus on implementation in networked sensor and control systems Featuring 23 chapters contributed by more than 60 leading researchers from around the world this book covers Methods of analysis and design of event based control and signal processing Event driven control

and optimization of hybrid systems Decentralized event triggered control Periodic event triggered control Model based event triggered control and event triggered generalized predictive control Event based intermittent control in man and machine Event based PID controllers Event based state estimation Self triggered and team triggered control Event triggered and time triggered real time architectures for embedded systems Event based continuous time signal acquisition and DSP Statistical event based signal processing in distributed detection and estimation Asynchronous spike event coding technique with address event representation Event based processing of non stationary signals Event based digital FIR and IIR filters Event based local bandwidth estimation and signal reconstruction Event Based Control and Signal Processing is the first extensive study on both event based control and event based signal processing presenting scientific contributions at the cutting edge of modern science and engineering

Estimation and Inference in Discrete Event Systems Christoforos N.

Hadjicostis,2019-10-02 Estimation and Inference in Discrete Event Systems chooses a popular model for emerging automation systems finite automata under partial observation and focuses on a comprehensive study of the key problems of state estimation and event inference The text includes treatment of current delayed and initial state estimation Related applications for assessing and enforcing resiliency fault detection and diagnosis and security privacy and opacity properties are discussed enabling the reader to apply these techniques in a variety of emerging applications among them automated manufacturing processes intelligent vehicle highway systems and autonomous vehicles The book provides a systematic development of recursive algorithms for state estimation and event inference The author also deals with the verification of pertinent properties such as the ability to determine the exact state of a system detectability the ability to ensure that certain classes of faults can be detected identified diagnosability and the ability to ensure that certain internal state variables of the system remain hidden from the outside world regardless of the type of activity that is taking place opacity This book allows students researchers and practicing engineers alike to grasp basic aspects of state estimation in discrete event systems aspects like distributivity and probabilistic inference quickly and without having to master the entire breadth of models that are available in the literature

Stochastic Control and Filtering over Constrained Communication Networks

Qinyuan Liu,Zidong Wang,Xiao He,2018-10-24 Stochastic Control and Filtering over Constrained Communication Networks presents up to date research developments and novel methodologies on stochastic control and filtering for networked systems under constrained communication networks It provides a framework of optimal controller filter design resilient filter design stability and performance analysis for the systems considered subject to various kinds of communication constraints including signal to noise constraints bandwidth constraints and packet drops Several techniques are employed to develop the controllers and filters desired including recursive Riccati equations matrix decomposition optimal estimation theory and mathematical optimization methods Readers will benefit from the book s new concepts models and methodologies that have practical significance in control engineering and signal processing Stochastic Control and Filtering over Constrained

Communication Networks is a practical research reference for engineers dealing with networked control and filtering problems It is also of interest to academics and students working in control and communication networks *Computer Performance Engineering* Dieter Fiems,Marco Paolieri,Agapios N. Platis,2016-09-15 This book constitutes the refereed proceedings of the 13th European Workshop on Computer Performance Engineering EPEW 2016 held in Chios Greece in October 2016 The 14 papers presented together with 2 invited talks in this volume were carefully reviewed and selected from 25 submissions The papers presented at the workshop reflect the diversity of modern performance engineering with topics ranging from the analysis of queueing networks and stochastic processes to performance analysis of computer systems and networks and even modeling of human behavior *Advanced Wireless Technologies for Industrial Network Systems* Ling Lyu,Xinping Guan,Nan Cheng,Xuemin Sherman Shen,2023-04-04 This book provides a comprehensive overview of wireless technologies for industrial network systems The authors first describe the concept of industrial network systems and their application to industrial automation They then go on to cover the role of sensing and control in industrial network systems and the challenge of sensing and control in the industrial wireless environment Then the existing techniques for resource efficiency information transmission are introduced and studied Afterward the authors introduce sensing and control oriented transmission for industrial network systems which take advantage of spatial diversity gain to overcome the interference and fading which in turn improves the transmission reliability without expending extra spectrum resources and enlarging the transmission delay Subsequently edge assisted efficient transmission schemes are introduced which integrate the capacities of communication computing and control to relieve the contradiction of resource limitation and massive data Finally the authors discuss open research issues and future works about information transmission in industrial network systems

Event-Triggered Transmission Protocol in Robust Control Systems Niladri Sekhar Tripathy,Indra Narayan Kar,Kolin Paul,2022-07-18 Controlling uncertain networked control system NCS with limited communication among subcomponents is a challenging task and event based sampling helps resolve the issue This book considers event triggered scheme as a transmission protocol to negotiate information exchange in resilient control for NCS via a robust control algorithm to regulate the closed loop behavior of NCS in the presence of mismatched uncertainty with limited feedback information It includes robust control algorithm for linear and nonlinear systems with verification Features Describes optimal control based robust control law for event triggered systems States results in terms of Theorems and Lemmas supported with detailed proofs Presents the combination of network interconnected systems and robust control strategy Includes algorithmic steps for precise understanding of the control technique Covers detailed problem statement and proposed solutions along with numerical examples This book aims at Senior undergraduate Graduate students and Researchers in Control Engineering Robotics and Signal Processing **Stochastic Simulation Optimization for Discrete Event Systems** Chun-Hung Chen,Qing-Shan Jia,Loo Hay Lee,2013 Discrete event systems DES have become pervasive in our daily lives Examples

include but are not restricted to manufacturing and supply chains transportation healthcare call centers and financial engineering However due to their complexities that often involve millions or even billions of events with many variables and constraints modeling these stochastic simulations has long been a hard nut to crack The advance in available computer technology especially of cluster and cloud computing has paved the way for the realization of a number of stochastic simulation optimization for complex discrete event systems This book will introduce two important techniques initially proposed and developed by Professor Y C Ho and his team namely perturbation analysis and ordinal optimization for stochastic simulation optimization and present the state of the art technology and their future research directions

Cyber-Physical Systems Houbing Herbert Song,Danda B. Rawat,Sabina Jeschke,Christian Brecher,2016-08-27 Cyber Physical Systems Foundations Principles and Applications explores the core system science perspective needed to design and build complex cyber physical systems Using Systems Science s underlying theories such as probability theory decision theory game theory organizational sociology behavioral economics and cognitive psychology the book addresses foundational issues central across CPS applications including System Design How to design CPS to be safe secure and resilient in rapidly evolving environments System Verification How to develop effective metrics and methods to verify and certify large and complex CPS Real time Control and Adaptation How to achieve real time dynamic control and behavior adaptation in a diverse environments such as clouds and in network challenged spaces Manufacturing How to harness communication computation and control for developing new products reducing product concepts to realizable designs and producing integrated software hardware systems at a pace far exceeding today s timeline The book is part of the Intelligent Data Centric Systems Sensor Collected Intelligence series edited by Fatos Xhafa Technical University of Catalonia Indexing The books of this series are submitted to EI Compendex and SCOPUS Includes in depth coverage of the latest models and theories that unify perspectives expressing the interacting dynamics of the computational and physical components of a system in a dynamic environment Focuses on new design analysis and verification tools that embody the scientific principles of CPS and incorporate measurement dynamics and control Covers applications in numerous sectors including agriculture energy transportation building design and automation healthcare and manufacturing Nonlinear Control and Filtering for Stochastic Networked Systems Lifeng Ma,Zidong Wang,Yuming Bo,2018-12-07 In this book control and filtering problems for several classes of stochastic networked systems are discussed In each chapter the stability robustness reliability consensus performance and or disturbance attenuation levels are investigated within a unified theoretical framework The aim is to derive the sufficient conditions such that the resulting systems achieve the prescribed design requirements despite all the network induced phenomena Further novel notions such as randomly occurring sensor failures and consensus in probability are discussed Finally the theories techniques developed are applied to emerging research areas Key Features Unifies existing and emerging concepts concerning stochastic control filtering and distributed control filtering with an emphasis on a variety

of network induced complexities Includes concepts like randomly occurring sensor failures and consensus in probability with respect to time varying stochastic multi agent systems Exploits the recursive linear matrix inequality approach completing the square method Hamilton Jacobi inequality approach and parameter dependent matrix inequality approach to handle the emerging mathematical computational challenges Captures recent advances of theories techniques and applications of stochastic control as well as filtering from an engineering oriented perspective Gives simulation examples in each chapter to reflect the engineering practice

International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018 Jude Hemanth,Xavier Fernando,Pavel Lafata,Zubair Baig,2018-12-20 This book discusses data communication and computer networking communication technologies and the applications of IoT Internet of Things big data cloud computing and healthcare informatics It explores examines and critiques intelligent data communications and presents inventive methodologies in communication technologies and IoT Aimed at researchers and academicians who need to understand the importance of data communication and advanced technologies in IoT it offers different perspectives to help readers increase their knowledge and motivates them to conduct research in the area highlighting various innovative ideas for future research

Multi-Objective Optimization System Designs and Their Applications Bor-Sen Chen,2023-12-05 This book introduces multi objective design methods to solve multi objective optimization problems MOPs of linear nonlinear dynamic systems under intrinsic random fluctuation and external disturbance The MOPs of multiple targets for systems are all transformed into equivalent linear matrix inequality LMI constrained MOPs Corresponding reverse order LMI constrained multi objective evolution algorithms are introduced to solve LMI constrained MOPs using MATLAB All proposed design methods are based on rigorous theoretical results and their applications are focused on more practical engineering design examples Features Discusses multi objective optimization from an engineer s perspective Contains the theoretical design methods of multi objective optimization schemes Includes a wide spectrum of recent research topics in control design especially for stochastic mean field diffusion problems Covers practical applications in each chapter like missile guidance design economic and financial systems power control tracking minimization design in communication and so forth Explores practical multi objective optimization design examples in control signal processing communication and cyber financial systems This book is aimed at researchers and graduate students in electrical engineering control design and optimization

Intelligent Computation and Analytics on Sustainable Energy and Environment Amarjit Roy,Chiranjit Sain,Raja Ram Kumar,Sandip Chanda,Valentina Emilia Balas,Saad Mekhilef,2024-11-18 The 1st International Conference on Intelligent Computation and Analytics on Sustainable Energy ICICASEE 2023 was held at Ghani Khan Choudhury Institute of Engineering Technology GKCIET Malda West Bengal India GKCIET is a premier engineering institute located in Malda West Bengal India Being established in 2010 at present the institute offers B Tech and Diploma Civil Engineering Mechanical Engineering Electrical Engineering Computer Science and engineering and Food process ing technology The conference was

aimed to provide a platform for researchers academicians industry professionals and students to exchange knowledge and ideas on intelligent computation analytics and their applications in sustainable energy systems The Department of Electrical Engineering of the institute hosted the conference from September 21-23, 2023 *PROCEEDINGS OF THE 23RD CONFERENCE ON FORMAL METHODS IN COMPUTER-AIDED DESIGN - FMCAD 2023* Alexander Nadel, Kristin Yvonne Rozier, 2023-10-13 The Conference on Formal Methods in Computer Aided Design FMCAD is an annual conference on the theory and applications of formal methods in hardware and system in academia and industry for presenting and discussing groundbreaking methods technologies theoretical results and tools for reasoning formally about computing systems FMCAD covers formal aspects of computer aided system testing

Robust H_∞ Team Formation Tracking Design Methods of Large-Scale UAV Networked Control Systems Bor-Sen Chen, 2024-11-15 This book introduces the centralized robust H_∞ team formation tracking control strategy of multi unmanned aerial vehicle multi UAV network system under intrinsic random fluctuation time varying delay and packet dropout in wireless communication and external disturbance A simple robust decentralized H_∞ proportional integral derivative PID reference tracking network control strategy is introduced for practical applications of team formation of large scale UAV under control saturation constraint external disturbance and vortex coupling It provides practical design procedures based on linear matrix inequalities LMIs solvable via LMI TOOLBOX in MATLAB Features Focuses on the stabilization of a QUAV under finite time switching model control SMC Discusses robustness control design for formation tracking in UAV networks Introduces different robust centralized and decentralized H_∞ attack tolerant observer based reference team formation tracking control of large scale UAVs Reviews practical case studies in each chapter to introduce the design procedures Includes design examples of team formation of 25 quadrotor UAVs and a team formation example of five hybrid quadrotor biped robot sub teams This book is aimed at researchers and graduate students in control and electrical engineering

Integration of Cloud Computing with Internet of Things Monika Mangla, Suneeta Satpathy, Bhagirathi Nayak, Sachi Nandan Mohanty, 2021-04-13 The book aims to integrate the aspects of IoT Cloud computing and data analytics from diversified perspectives The book also plans to discuss the recent research trends and advanced topics in the field which will be of interest to academicians and researchers working in this area Thus the book intends to help its readers to understand and explore the spectrum of applications of IoT cloud computing and data analytics Here it is also worth mentioning that the book is believed to draw attention on the applications of said technology in various disciplines in order to obtain enhanced understanding of the readers Also this book focuses on the researches and challenges in the domain of IoT Cloud computing and Data analytics from perspectives of various stakeholders

Reasoning in Event-Based Distributed Systems Sven Helmer, Alexandra Poulouvasilis, Fatos Xhafa, 2011-06-17 With the rapid expansion of the Internet over the last 20 years event based distributed systems are playing an increasingly important role in a broad range of application domains including enterprise management environmental

monitoring information dissemination finance pervasive systems autonomic computing collaborative working and learning and geo spatial systems Many different architectures languages and technologies are being used for implementing event based distributed systems and much of the development has been undertaken independently by different communities However a common factor is an ever increasing complexity Users and developers expect that such systems are able not only to handle large volumes of simple events but also to detect complex patterns of events that may be spatially distributed and may span significant periods of time Intelligent and logic based approaches provide sound foundations for addressing many of the research challenges faced and this book covers a broad range of recent advances contributed by leading experts in the field It presents a comprehensive view of reasoning in event based distributed systems bringing together reviews of the state of the art new research contributions and an extensive set of references It will serve as a valuable resource for students faculty and researchers as well as industry practitioners responsible for new systems development **Intelligent**

Computing and Internet of Things Kang Li,Minrui Fei,Dajun Du,Zhile Yang,Dongsheng Yang,2018-09-03 The three volume set CCIS 923 CCIS 924 and CCIS 925 constitutes the thoroughly refereed proceedings of the First International Conference on Intelligent Manufacturing and Internet of Things and of the 5th International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2018 held in Chongqing China in September 2018 The 135 revised full papers presented were carefully reviewed and selected from over 385 submissions The papers of this volume are organized in topical sections on digital manufacturing industrial product design logistics production and operation management manufacturing material manufacturing optimization manufacturing process mechanical transmission system robotics *Attack-and-Defense Games for Control Systems* Huanhuan Yuan,Yuan Yuan,Huapeng Dong,Yuanqing Xia,2024-08-13 This vital work for researchers and graduate students focuses on resilience estimation and control of cyber physical networked systems using attacker defender game theory It presents attack and defense strategies and describes the design and resilience of control systems to withstand cyberattacks Complex control systems including cyber physical and cloud control systems are in open network environments and are often confronted with threats from cyberspace physical space and even cloud service With diversified and intelligent attack patterns and improvements in attack capabilities non contact damage can be widespread In this book the authors use a formal mathematical approach to introduce their recent research findings to describe and design attack and defense strategies using game theoretic method The book is divided into three sections focusing on strategies for resilience against deception attacks and DoS attacks and protecting cloud control systems against threats In these sections the authors address topics such as secure and distributed filtering attack detection and disturbance rejection resilient state estimation and resilient control and techniques such as Stackelberg games hierarchical games and active eavesdropping Through this book readers will be able to design effective defense strategies for complex control system to achieve resilience for closed control cyber physical systems network and cloud systems This book

is a vital resource for graduate students and academic researchers who are familiar with the concepts related to cyberattack and defense and who have a related research background To maximize their benefit from this book readers are recommended to have a strong mathematical foundation as the book takes a mathematical approach to the concepts and strategies described within

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