

SYSTEMS ENGINEERING METHODS, DEVELOPMENTS AND TECHNOLOGY

NETWORKED CONTROL SYSTEMS

THEORY,
APPLICATIONS
AND ANALYSIS

SHIWEN TONG • DIANWEI QIAN
EDITORS

NOVA

Networked Control Systems Theory And Applications

Dong Yue, Songlin Hu, Zihao Cheng



Networked Control Systems Theory And Applications:

Networked Control Systems Fei-Yue Wang, Derong Liu, 2008-06-17 Networked control systems NCS confer advantages of cost reduction system diagnosis and flexibility minimizing wiring and simplifying the addition and replacement of individual elements efficient data sharing makes taking globally intelligent control decisions easier with NCS The applications of NCS range from the large scale of factory automation and plant monitoring to the smaller networks of computers in modern cars places and autonomous robots Networked Control Systems presents recent results in stability and robustness analysis and new developments related to networked fuzzy and optimal control Many chapters contain case studies experimental simulation or other application related work showing how the theories put forward can be implemented The state of the art research reported in this volume by an international team of contributors makes it an essential reference for researchers and postgraduate students in control electrical computer and mechanical engineering and computer science

Networked Control Systems Fei-Yue Wang, Derong Liu, 2009-08-29 Networked control systems NCS confer advantages of cost reduction system diagnosis and flexibility minimizing wiring and simplifying the addition and replacement of individual elements efficient data sharing makes taking globally intelligent control decisions easier with NCS The applications of NCS range from the large scale of factory automation and plant monitoring to the smaller networks of computers in modern cars places and autonomous robots Networked Control Systems presents recent results in stability and robustness analysis and new developments related to networked fuzzy and optimal control Many chapters contain case studies experimental simulation or other application related work showing how the theories put forward can be implemented The state of the art research reported in this volume by an international team of contributors makes it an essential reference for researchers and postgraduate students in control electrical computer and mechanical engineering and computer science

Networked Control Systems Shiwen Tong, Dianwei Qian, 2021 Networked Control System NCS can be regarded as a special type of control system in which sensors controllers and actuators are connected to a closed loop Media sharing characteristics time delay data packet dropout and data displacement are inevitable phenomena in such a control system which can greatly degrade the control performance and even make the control system unstable Alleviating these effects has become one of the most attractive research hotspots in the last two decades All the above three problems can be summarized as the time delay issue There are two kinds of time delay compensation strategies one is active compensation and the other is passive compensation For the former prediction is the core idea Selecting the appropriate candidate predicted control action according to the time delay information is a feasible solution For the latter making the system insensitive to delay is a good choice This book covers the design modeling control simulation and application of the networked control system This book addresses some original contributions reporting the latest advances in networked control It aims to gather the latest research on state of the art methods simulations and applications of networked control techniques The editor hopes it can

reveal some tendencies in this research field and benefit readers including professional researchers and students This is an interesting collection of networked control techniques such as date based control tracking control event triggered control formation control etc

Control Strategies and Co-Design of Networked Control Systems Héctor Benítez-Pérez, Jorge L. Ortega-Arjona, Paul E. Méndez-Monroy, Ernesto Rubio-Acosta, Oscar A. Esquivel-Flores, 2018-07-31 This book presents Networked Control System NCS as a particular kind of a real time distributed system RTDS composed of a set of nodes interconnected by a network and able to develop a complete control process It describes important parts of the control process such as sensor and actuator activities which rely on a real time operating system and a real time communication network As the use of common bus network architecture introduces different forms of uncertainties between sensors actuators and controllers several approaches such as reconfigurable systems have been developed to tackle this problem Moreover modeling NCS is a challenging procedure since there are several non linear situations like local saturations uncertain time delays dead zones or local situations it is necessary to deal with The book describes a novel strategy for modelling and control based on a fuzzy control approach and codesign strategies

Networked Control Systems Alberto Bemporad, Maurice Heemels, Mikael Vejdemo-Johansson, 2010-10-14 This book nds its origin in the WIDE PhD School on Networked Control Systems which we organized in July 2009 in Siena Italy Having gathered experts on all the aspects of networked control systems it was a small step to go from the summer school to the book certainly given the enthusiasm of the lecturers at the school We felt that a book collecting overviewson the important developmentsand open pr lems in the eld of networked control systems could stimulate and support future research in this appealing area Given the tremendouscurrentinterests in distributed control exploiting wired and wireless communication networks the time seemed to be right for the book that lies now in front of you The goal of the book is to set out the core techniques and tools that are ava able for the modeling analysis and design of networked control systems Roughly speaking the book consists of three parts The rst part presents architectures for distributed control systems and models of wired and wireless communication n works In particular in the rst chapter important technological and architectural aspects on distributed control systems are discussed The second chapter provides insight in the behavior of communication channels in terms of delays packet loss and information constraints leading to suitable modeling paradigms for commu cation networks

Intelligent Unmanned Systems: Theory and Applications Agus Budiyo, Bambang Riyanto, Endra Joelianto, 2009-03-20 The book largely represents the extended version of select papers from the Inter tional Conference on Intelligent Unmanned System ICIUS 2007 which was jointly organized by the Center for Unmanned System Studies at Institut Teknologi Bandung Artificial Muscle Research Center at Konkuk University and Institute of Bio inspired Structure and Surface Engineering Nanjing University of Aeronautics and Astrona ics The joint event was the 3rd conference extending from International Conference on Emerging System Technology ICEST in 2005 and International Conference on Technology Fusion ICTF in 2006 both conducted in Seoul

ICIUS 2007 was focused on both theory and application primarily covering the topics on robotics autonomous vehicles and intelligent unmanned technologies The conference was arranged into three parallel symposia with the following scope of topics Unmanned Systems Micro air vehicle Underwater vehicle Micro satellite manned aerial vehicle Multi agent systems Autonomous ground vehicle Blimp Swarm intelligence learning and control Robotics and Biomimetics Artificial muscle actuators Smart sensors Design and applications of MEMS NEMS system Intelligent robot system Evolutionary al rithm Control of biological systems AI and expert systems Biological learning control systems Neural networks Genetic algorithm Control and Intelligent System Distributed intelligence Distributed decentralized intelligent control Distributed or decentralized control methods Distributed and bedded systems Embedded intelligent control Complex systems Discrete event s tems Hybrid systems Networked control systems Delay systems Fuzzy systems Identification and estimation Nonlinear systems Precision motion control Control applications Control engineering education **Optimal Networked Control**

Systems with MATLAB Jagannathan Sarangapani,Hao Xu,2018-09-03 Optimal Networked Control Systems with MATLAB discusses optimal controller design in discrete time for networked control systems NCS The authors apply several powerful modern control techniques in discrete time to the design of intelligent controllers for such NCS Detailed derivations rigorous stability proofs computer simulation examples and downloadable MATLAB codes are included for each case The book begins by providing background on NCS networked imperfections dynamical systems stability theory and stochastic optimal adaptive controllers in discrete time for linear and nonlinear systems It lays the foundation for reinforcement learning based optimal adaptive controller use for finite and infinite horizons The text then Introduces quantization effects for linear and nonlinear NCS describing the design of stochastic adaptive controllers for a class of linear and nonlinear systems Presents two player zero sum game theoretic formulation for linear systems in input output form enclosed by a communication network Addresses the stochastic optimal control of nonlinear NCS by using neuro dynamic programming Explores stochastic optimal design for nonlinear two player zero sum games under communication constraints Treats an event sampled distributed NCS to minimize transmission of state and control signals within the feedback loop via the communication network Covers distributed joint optimal network scheduling and control design for wireless NCS as well as the effect of network protocols on the wireless NCS controller design An ideal reference for graduate students university researchers and practicing engineers Optimal Networked Control Systems with MATLAB instills a solid understanding of neural network controllers and how to build them Networked Control Systems with Intermittent Feedback Domagoj Tolić,Sandra Hirche,2017-03-31 Networked Control Systems NCSs are spatially distributed systems for which the communication between sensors actuators and controllers is realized by a shared wired or wireless communication network NCSs offer several advantages such as reduced installation and maintenance costs as well as greater flexibility over conventional control systems in which parts of control loops exchange information via dedicated point to point connections The principal goal of

this book is to present a coherent and versatile framework applicable to various settings investigated by the authors over the last several years This framework is applicable to nonlinear time varying dynamic plants and controllers with delayed dynamics a large class of static dynamic probabilistic and priority oriented scheduling protocols delayed noisy lossy and intermittent information exchange decentralized control problems of heterogeneous agents with time varying directed not necessarily balanced communication topologies state and output feedback off line and on line intermittent feedback optimal intermittent feedback through Approximate Dynamic Programming ADP and Reinforcement Learning RL and control systems with exogenous disturbances and modeling uncertainties

Co-design Approaches to Dependable Networked Control Systems Daniel Simon,Ye-Qiong Song,Christophe Aubrun,2013-03-04 Networked Control Systems NCS is a growing field of application and calls for the development of integrated approaches requiring multidisciplinary skills in control real time computing and communication protocols This book describes co design approaches and establishes the links between the QoC Quality of Control and QoS Quality of Service of the network and computing resources The methods and tools described in this book take into account at design level various parameters and properties that must be satisfied by systems controlled through a network Among the important network properties examined are the QoC the dependability of the system and the feasibility of the real time scheduling of tasks and messages Correct exploitation of these approaches allows for efficient design diagnosis and implementation of the NCS This book will be of great interest to researchers and advanced students in automatic control real time computing and networking domains and to engineers tasked with development of NCS as well as those working in related network design and engineering fields

Analysis and Design of Networked Control Systems under Attacks Yuan Yuan,Hongjiu Yang,Lei Guo,Fuchun Sun,2018-09-21 This book adopts a systematic view of the control systems in cyber physical systems including the security control of the optimal control system security control of the non cooperative game system quantify the impact of the Denial of Service attacks on the optimal control system and the adaptive security control of the networked control systems Because the cyber physical system is a hybrid system it adopts cross layer approach to handle the security control of the CPS It presents a number of attack models according to the attack scenario and defense facilities and a number of cross layer co design methodologies to secure the control of CPS

Analysis and Synthesis of Networked Control Systems Yuanqing Xia,Mengyin Fu,Guo-Ping Liu,2011-03-17 Analysis and Synthesis of Networked Control Systems focuses on essential aspects of this field including quantization over networks data fusion over networks predictive control over networks and fault detection over networks The networked control systems have led to a complete new range of real world applications In recent years the techniques of Internet of Things are developed rapidly the research of networked control systems plays a key role in Internet of Things The book is self contained providing sufficient mathematical foundations for understanding the contents of each chapter It will be of significant interest to scientists and engineers engaged in the field of Networked Control Systems Dr Yuanqing Xia a professor at Beijing Institute of Technology

has been working on control theory and its applications for over ten years Optimal and Robust Scheduling for Networked Control Systems Stefano Longo, Tingli Su, Guido Herrmann, Phil Barber, 2018-09-03 Optimal and Robust Scheduling for Networked Control Systems tackles the problem of integrating system components controllers sensors and actuators in a networked control system It is common practice in industry to solve such problems heuristically because the few theoretical results available are not comprehensive and cannot be readily applied by practitioners This book offers a solution to the deterministic scheduling problem that is based on rigorous control theoretical tools but also addresses practical implementation issues Helping to bridge the gap between control theory and computer science it suggests that the consideration of communication constraints at the design stage will significantly improve the performance of the control system Technical Results Design Techniques and Practical Applications The book brings together well known measures for robust performance as well as fast stochastic algorithms to assist designers in selecting the best network configuration and guaranteeing the speed of offline optimization The authors propose a unifying framework for modelling NCSs with time triggered communication and present technical results They also introduce design techniques including for the codesign of a controller and communication sequence and for the robust design of a communication sequence for a given controller Case studies explore the use of the FlexRay TDMA and time triggered control area network CAN protocols in an automotive control system Practical Solutions to Your Time Triggered Communication Problems This unique book develops ready to use engineering tools for large scale control system integration with a focus on robustness and performance It emphasizes techniques that are directly applicable to time triggered communication problems in the automotive industry and in avionics robotics and automated manufacturing **Secure Control of Networked Control Systems and Its Applications** Dong Yue, Songlin Hu, Zihao Cheng, 2021-02-15 This book shows some secure control methods of networked control systems related to linear control system nonlinear control system multi agent system and its applications in power systems The proposed secure control methods provide some useful results about modeling of network attacks resilient analysis and synthesis methods active defense control method The contents of this book are lists as followings 1 Modeling of DoS attacks deception attacks and replay attacks 2 Secure control methods are proposed by combining delay system method switched system method and event based control method 3 Active control methods are proposed by using model predictive control and redundant control 4 The proposed control methods are applied to the security problem of power system The methods of this book include DoS attacks modeling such as periodic jamming attack model model based average dwell time model deception attack modeling and relay attack modeling piece wise Lyapunov Krasovskii functional method stochastic control method the results including resilient conditions of networked control system and related resilient control design method with linear matrix inequalities LMIs From this book readers can learn about the general network attack modeling methods resilient analysis and synthesis methods active control methods from viewpoint of redundancy control and secure conditions of power

systems Some fundamental knowledge prepared to read this book includes delay system theory event triggered mechanism T S fuzzy system theory and frequency voltage control of power system *AsiaSim 2012 - Part II* Tianyuan Xiao, Lin Zhang, Minrui Fei, 2012-10-08 The Three Volume Set CCIS 323 324 325 AsiaSim 2012 together with the Two Volume Set CCIS 326 327 ICSC 2012 constitutes the refereed proceedings of the Asia Simulation Conference AsiaSim 2012 and the International Conference on System Simulation ICSC 2012 held in Shanghai China in October 2012 The 267 revised full papers presented were carefully reviewed and selected from 906 submissions The papers are organized in topical sections on modeling theory and technology modeling and simulation technology on synthesized environment and virtual reality environment pervasive computing and simulation technology embedded computing and simulation technology verification validation and accreditation technology networked modeling and simulation technology modeling and simulation technology of continuous system discrete system hybrid system and intelligent system high performance computing and simulation technology cloud simulation technology modeling and simulation technology of complex system and open complex huge system simulation based acquisition and virtual prototyping engineering technology simulator simulation language and intelligent simulation system parallel and distributed software CAD CAE CAM CIMS VP VM and VR visualization computing and simulation applications in science and engineering computing and simulation applications in management society and economics computing and simulation applications in life and biomedical engineering computing and simulation applications in energy and environment computing and simulation applications in education computing and simulation applications in military field computing and simulation applications in medical field *Frontiers Of Intelligent Control And Information Processing* Derong Liu, Cesare Alippi, Dongbin Zhao, Huaguang Zhang, 2014-08-13 The current research and development in intelligent control and information processing have been driven increasingly by advancements made from fields outside the traditional control areas into new frontiers of intelligent control and information processing so as to deal with ever more complex systems with ever growing size of data and complexity As researches in intelligent control and information processing are taking on ever more complex problems the control system as a nucleus to coordinate the activity within a system increasingly need to be equipped with the capability to analyze and reason so as to make decision This requires the support of cognitive components and communication protocol to synchronize events within the system to operate in unison In this review volume we invited several well known experts and active researchers from adaptive approximate dynamic programming reinforcement learning machine learning neural optimal control networked systems and cyber physical systems online concept drift detection pattern recognition to contribute their most recent achievements into the development of intelligent control systems to share with the readers how these inclusions help to enhance the cognitive capability of future control systems in handling complex problems This review volume encapsulates the state of art pioneering works in the development of intelligent control systems Proposition and evocations of each solution is backed up with evidences from

applications could be used as references for the consideration of decision support and communication components required for today intelligent control systems Delays and Networked Control Systems Alexandre Seuret, Laurentiu Hetel, Jamal Daafouz, Karl H. Johansson, 2016-06-07 This edited monograph includes state of the art contributions on continuous time dynamical networks with delays The book is divided into four parts The first part presents tools and methods for the analysis of time delay systems with a particular attention on control problems of large scale or infinite dimensional systems with delays The second part of the book is dedicated to the use of time delay models for the analysis and design of Networked Control Systems The third part of the book focuses on the analysis and design of systems with asynchronous sampling intervals which occur in Networked Control Systems The last part of the book exposes several contributions dealing with the design of cooperative control and observation laws for networked control systems The target audience primarily comprises researchers and experts in the field of control theory but the book may also be beneficial for graduate students Control and Estimation Methods over Communication Networks Magdi S. Mahmoud, 2014-07-08 This book provides a rigorous framework in which to study problems in the analysis stability and design of networked control systems Four dominant sources of difficulty are considered packet dropouts communication bandwidth constraints parametric uncertainty and time delays Past methods and results are reviewed from a contemporary perspective present trends are examined and future possibilities proposed Emphasis is placed on robust and reliable design methods New control strategies for improving the efficiency of sensor data processing and reducing associated time delay are presented The coverage provided features an overall assessment of recent and current fault tolerant control algorithms treatment of several issues arising at the junction of control and communications key concepts followed by their proofs and efficient computational methods for their implementation and simulation examples including TrueTime simulations to provide hands on experience In addition to the theoretical coverage the author describes a number of applications that demonstrate the real world relevance of this material and these include a servo system a triple inverted pendulum power system control wireless control of a cart with inverted pendulum and wireless servo application with emphasis on controller area networks and switched ethernet and wireless area networks Researchers and graduate students working in networked and distributed control will find this text a useful guide in avoiding and ameliorating common and serious problems with these systems The increasing prevalence of networks in many fields of engineering will make Control and Estimation Methods over Communication Networks of interest to practitioners with backgrounds in communications process engineering robotics power automotive and other areas

Multilayer Control of Networked Cyber-Physical Systems Sabato Manfredi, 2016-09-17 This book faces the interdisciplinary challenge of formulating performance assessing design approaches for networked cyber physical systems NCPSs Its novel distributed multilayer cooperative control deals simultaneously with communication network and control performance required for the network and application layers of an NCPS respectively Practically it distributes the

computational burden among different devices which act cooperatively to achieve NCPS goals The approach can be applied to NCPSs based on both wired and wireless technologies and so is suitable for future network infrastructures in which different protocols and technologies coexist The book reports realistic results from performance evaluation of the new approach when applied in different operative scenarios Readers of this book will benefit by learning a general technology independent methodology for the design and implementation of cooperative distributed algorithms for flow control at the network layer of an NCPS that gives algorithm parameter tuning guidelines for assessing the desired quality of service performance learning a general methodology for the design and implementation of consensus based algorithms at the application layer that allows monitoring and control of distributed physical systems and gives algorithm parameter tuning guidelines for assessing the desired control system performance understanding the main network simulators needed to validate the effectiveness of the proposed multilayer control approach in different realistic network operation scenarios and practising with a cooperative multilayer control project that assesses acceptable NCPS performance in networked monitoring and robot systems autonomous and queuing networks and other critical human relief applications Researchers graduate students and practitioners working in automation engineering sensor networks mobile robotics and computer networks will find this book instructive It will also be helpful to network administrators and technicians implementing application layer and network layer solutions or installing configuring or troubleshooting network and control system components of NCPSs

Wireless Networking Based Control Sudip K. Mazumder, 2010-11-25 This book will have a broad appeal in the area of Wireless Networking Based Control Various engineering disciplines control and communication science organizations will be interested in purchasing the book with a new emerging and important theme Also industry such as Honeywell and those e g power industry automotive industry aerospace industry interested in implementing wireless network control to express interest in purchasing this book Intelligent Industrial Systems: Modeling, Automation and Adaptive Behavior Rigatos, Gerasimos, 2010-06-30 In recent years there has been growing interest in industrial systems especially in robotic manipulators and mobile robot systems As the cost of robots goes down and become more compact the number of industrial applications of robotic systems increases Moreover there is need to design industrial systems with intelligence autonomous decision making capabilities and self diagnosing properties Intelligent Industrial Systems Modeling Automation and Adaptive Behavior analyzes current trends in industrial systems design such as intelligent industrial and mobile robotics complex electromechanical systems fault diagnosis and avoidance of critical conditions optimization and adaptive behavior This book discusses examples from major areas of research for engineers and researchers providing an extensive background on robotics and industrial systems with intelligence autonomy and adaptive behavior giving emphasis to industrial systems design

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