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Qing-Long Han

Communication and Control for Networked Complex Systems

 Springer

Communication And Control For Networked Complex Systems

Yi-Tong Ma



Communication And Control For Networked Complex Systems:

Communication and Control for Networked Complex Systems Chen Peng, Dong Yue, Qing-Long Han, 2015-04-09 This book reports on the latest advances in the study of Networked Control Systems NCSs It highlights novel research concepts on NCSs the analysis and synthesis of NCSs with special attention to their networked character self and event triggered communication schemes for conserving limited network resources and communication and control co design for improving the efficiency of NCSs The book will be of interest to university researchers control and network engineers and graduate students in the control engineering communication and network sciences interested in learning the core principles methods algorithms and applications of NCSs Modelling, Estimation and Control of Networked Complex Systems Alessandro Chiuso, Luigi Fortuna, Mattia Frasca, Alessandro Rizzo, Luca Schenato, Sandro Zampieri, 2009-10-13 The paradigm of complexity is pervading both science and engineering leading to the emergence of novel approaches oriented at the development of a systemic view of the phenomena under study the definition of powerful tools for modelling estimation and control and the cross fertilization of different disciplines and approaches One of the most promising paradigms to cope with complexity is that of networked systems Complex dynamical networks are powerful tools to model estimate and control many interesting phenomena like agent coordination synchronization social and economics events networks of critical infrastructures resources allocation information processing control over communication networks etc Advances in this field are highlighting approaches that are more and more often based on dynamical and time varying networks i.e. networks consisting of dynamical nodes with links that can change over time Moreover recent technological advances in wireless communication and decreasing cost and size of electronic devices are promoting the appearance of large inexpensive interconnected systems each with computational sensing and mobile capabilities This is fostering the development of many engineering applications which exploit the availability of these systems of systems to monitor and control very large scale phenomena with high resolution

NBS Special Publication, 1973 **Iterative Learning Control for Network Systems Under Constrained Information Communication** Wenjun Xiong, Zijian Luo, Daniel W. C. Ho, 2024-05-03 This book focuses on the subject area of Network Systems and Control Theory providing a comprehensive examination of the dynamic behavior of networked systems operating under communication constraints It introduces innovative iterative learning control strategies that aim to ensure stability consistency and security of networked systems The field of networked systems has garnered significant interest from scientists and engineers across various disciplines including information electrical transportation life social and management sciences This book consistently addresses a wide range of issues related to networked systems emphasizing the critical impact of communication constraints on stability and security It highlights the effectiveness and importance of iterative learning methods in tackling these challenges Suitable for both undergraduate and graduate students interested in networked systems and iterative learning control this book also serves as a valuable resource for university

faculty and engineers engaged in complex systems control theory research and real world applications Its broad appeal extends to professionals working in related fields seeking a deeper understanding of networked systems and their control mechanisms

Communication-Protocol-Based Filtering and Control of Networked Systems Lei Zou,Zidong Wang,Jinling Liang,2022-05-03 Communication Protocol Based Filtering and Control of Networked Systems is a self contained treatment of the state of the art in communication protocol based filtering and control recent advances in networked systems and the potential for application in sensor networks This book provides new concepts new models and new methodologies with practical significance in control engineering and signal processing The book first establishes signal transmission models subject to different communication protocols and then develops new filter design techniques based on those models and preset requirements for filtering performance The authors then extend this work to finite horizon H infinity control ultimately bounded control and finite horizon consensus control The focus throughout is on three typical communications protocols the round robin random access and try once and discard protocols and the systems studied are drawn from a variety of classes among them nonlinear systems time delayed and time varying systems multi agent systems and complex networks Readers are shown the latest techniques recursive linear matrix inequalities backward recursive difference equations stochastic analysis and mapping methods The unified framework for communication protocol based filtering and control for different networked systems established in the book will be of interest to academic researchers and practicing engineers working with communications and other signal processing systems Senior undergraduate and graduate students looking to increase their knowledge of current methods in control and signal processing of networked systems will also find this book valuable

Springer Handbook of Automation Shimon Y. Nof,2023-06-16 This handbook incorporates new developments in automation It also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics The handbook is not only an ideal resource for automation experts but also for people new to this expanding field

2020 International Conference on Data Processing Techniques and Applications for Cyber-Physical Systems Chuanchao Huang,Yu-Wei Chan,Neil Yen,2021-06-01 This book covers cutting edge and advanced research on data processing techniques and applications for cyber physical systems gathering the proceedings of the International Conference on Data Processing Techniques and Applications for Cyber Physical Systems DPTA 2020 held in Laibin City Guangxi Province China on December 11 12 2020 It examines a wide range of topics including distributed processing for sensor data in CPS networks approximate reasoning and pattern recognition for CPS networks data platforms for efficient integration with CPS networks machine learning algorithms for CPS networks and data security and privacy in CPS networks Outlining promising future research directions the book offers a valuable resource for students researchers and professionals alike while also providing a useful reference guide for newcomers to the field

Simulation-Based Engineering of Complex Systems John R.

Clymer, 2009-03-16 A hands on approach to understanding designing analyzing and evaluating complex systems During the last few years Simulation Based Systems Engineering SBSE has become an essential tool for the design and evaluation of complex systems This is the first book to cover the basic principles of complex systems through the use of hands on experimentation using an icon based simulation tool Utilizing the accompanying software tool ExtendSim which works with the OpEMCSS library readers are invited to engage in simulation based experiments that demonstrate the principles of complex systems with an emphasis on design analysis and evaluation A number of real world examples are included to demonstrate how to model complex systems across a range of engineering business societal economic and scientific disciplines Beginning with an introduction to SBSE the book covers Simulation concepts and building blocks Systems design and model development Markov model development Reliability processes Queuing theory in SBSE Rule based learning and adaptation Agent motion and spatial interactions Multi agent system of systems Assuming only a very basic background in problem solving ability this book is ideal as a textbook for students a homework solution manual is also available and as a reference book for practitioners in industry

Annotated Bibliography of the Literature on Resource Sharing Computer Networks Helen M. Wood, Shirley Ward Watkins, Ira W. Cotton, 1976

Manufacturing Engineering and Automation II Liang Chi Zhang, Chun Liang Zhang, Jeng Haur Horng, Zi Chen Chen, 2012-11-29 Selected peer reviewed papers from the 2012 International Conference on Manufacturing Engineering and Automation ICMEA 2012 November 16 18 2012 Guangzhou China

Information and Control in Networks Giacomo Como, Bo Bernhardsson, Anders Rantzer, 2013-10-30 Information and Control in Networks demonstrates the way in which system dynamics and information flows intertwine as they evolve and the central role played by information in the control of complex networked systems It is a milestone on the road to that convergence from traditionally independent development of control theory and information theory which has emerged strongly in the last fifteen years and is now a very active research field In addition to efforts in control and information theory the text is witness to strong research in such diverse fields as computer science mathematics and statistics Aspects that are given specialist treatment include data rate theorems computation and control over communication networks decentralized stochastic control Gaussian networks and Gaussian Markov random fields and routability in information networks Information and Control in Networks collects contributions from world leading researchers in the area who came together for the Lund Center for Control of Complex Engineering Systems Workshop in Information and Control in Networks from 17th 19th October 2012 the workshop being the centrepiece of a five week long focus period on the same theme A source of exciting cross fertilization and new ideas for extensive future research this volume will be of great interest to any researcher or graduate student interested in the interaction of control and information theory

Networked and Event-Triggered Control Approaches in Cyber-Physical Systems Jinhui Zhang, Yuanqing Xia, Zhongqi Sun, Duanduan Chen, 2022-01-27 The insertion of communication networks in feedback control loops complicates

analysis and synthesis of cyber physical systems CPSs and network induced uncertainties may degrade system control performance Thus this book researches networked delay compensation and event triggered control approaches for a series of CPSs subject to network induced uncertainties The authors begin with an introduction to the concepts and challenges of CPSs followed by an overview of networked control approaches and event triggered control strategies in CPSs Then networked delay compensation and event triggered control approaches are proposed for CPSs with network communication delay data dropout signal quantization and event triggered communication More specifically networked delay compensation approaches are proposed for linear nonlinear networked controlled plants with time varying and random network communication delays and data dropouts To reduce computational burden and network communication loads in CPSs event triggered control self triggered control co design of event triggered control and quantized control techniques and event triggered disturbance rejection control approaches are also presented This book is an essential text for researchers and engineers interested in cybersecurity networked control and CPSs It would also prove useful for graduate students in the fields of science engineering and computer science

Military Thought ,2008 **Communications-- Fusing Command, Control, and Intelligence** ,1992 *Vehicle, Mechatronics and Information Technologies* X.D. Yu,2013-08-30 Selected peer reviewed papers from the 2013 International Conference on Vehicle Mechanical Engineering and Information Technology VMEIT 2013 August 17 18 2013 Zhengzhou Henan China **Signal** ,1993 *Control over Communication Networks* Jianying Zheng,Liang Xu,Qinglei Hu,Lihua Xie,2023-05-16 Control over Communication Networks Advanced and systematic examination of the design and analysis of networked control systems and multi agent systems Control Over Communication Networks provides a systematic and nearly self contained description of the analysis and design of networked control systems NCSs and multi agent systems MASs over imperfect communication networks with a primary focus on fading channels and delayed channels The text characterizes the effect of communication channels on the stability and performance of NCSs and further studies the joint impact of communication channels and network topology on the consensus of MASs By integrating communication and control theory the four highly qualified authors present fundamental results concerning the stabilization of NCSs over power constrained fading channels and Gaussian finite state Markov channels linear quadratic optimal control of NCSs with random input gains optimal state estimation with intermittent observations consensus of MASs with communication delay and packet dropouts and synchronization of delayed Vicsek models Simulation results are given in each chapter to demonstrate the developed analysis and synthesis approaches The references are comprehensive and up to date enabling further study for readers Topics covered in Control Over Communication Networks include Basic foundational knowledge including control theory communication theory and graph theory to enable readers to understand more complex topics The stabilization optimal control and remote state estimation problems of linear systems over channels with fading signal to noise constraints or intermittent measurements Consensus

problems of MASs over fading delayed channels with directed and undirected communication graphs Control Over Communication Networks provides a valuable unified platform for understanding the analysis and design of NCSs and MASs for researchers control engineers working on control systems over communication networks and mechanical engineers working on unmanned systems Preliminary knowledge of linear system theory and matrix analysis is required

Proceedings of the ... IEEE Instrumentation and Measurement Technology Conference ,2003 Annual Air Traffic Control Association Fall Conference Proceedings Air Traffic Control Association. Fall Conference,1989
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