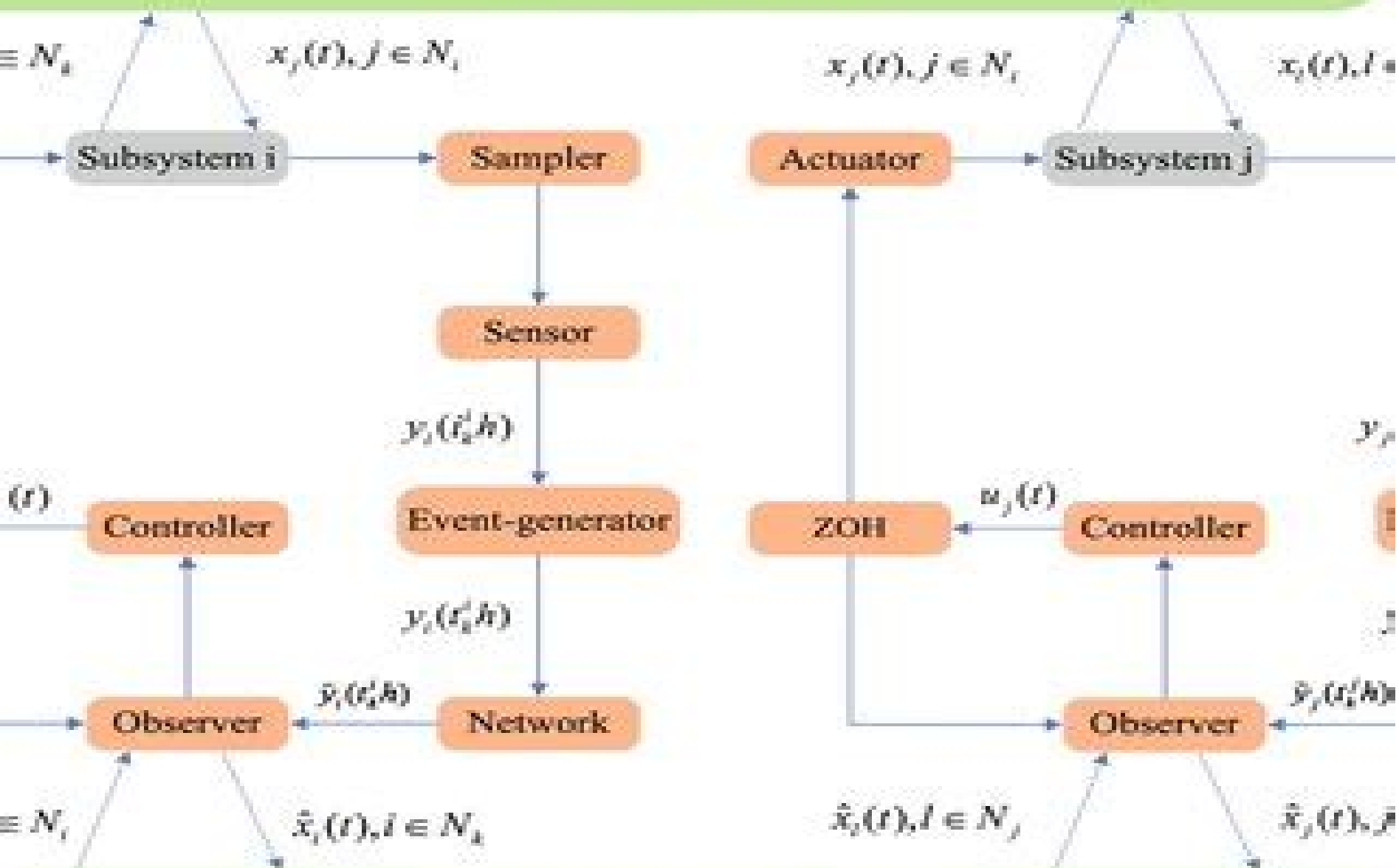


Interconnections



Communication Network

Structure Of Interconnected Systems

Martin Pfeifer



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Automated Model Generation and Observer Design for Interconnected Systems : A Port-Hamiltonian Approach Martin Pfeifer, 2022-06-27 This work addresses the automated generation of physical based models and model based observers We develop port Hamiltonian methods which for the first time allow a complete and consistent automation of these two processes for a large class of interconnected systems **Interconnected Power Systems** Yong Li, Dechang Yang, Fang

Liu, Yijia Cao, Christian Rehtanz, 2015-12-23 This book reports on the latest findings in the application of the wide area measurement systems WAMS in the analysis and control of power systems The book collects new research ideas and achievements including a delay dependent robust design method a wide area robust coordination strategy a hybrid assessment and choice method for wide area signals a free weighting matrices method and its application as well as the online identification methods for low frequency oscillations The main original research results of this book are a comprehensive summary of the authors latest six year study The book will be of interest to academic researchers R D engineers and graduate students in power systems who wish to learn the core principles methods algorithms and applications of the WAMS **Structural Methods in the Study of Complex Systems** Elena Zattoni, Anna Maria

Perdon, Giuseppe Conte, 2019-06-27 Structural Methods in the Study of Complex Systems helps the reader respond to the challenge of mastering complexity in systems and control The book details the fundamental control problems arising from complex dynamical systems and shows how they can be tackled effectively by means of methods developed from graph theory differential algebra and geometric approaches These structural methods produce abstractions that fit a wide variety of applications by taking advantage of their intrinsic focus on the essential characteristics of dynamical systems their geometric perspective and visual representation and their algebraic formalization and ability to generate algorithmic frameworks to complement the theoretical treatment The original work and latest achievements of the contributors expanding on material presented at a workshop organized to coincide with the 2018 European Control Conference will assist systems and control scientists interested in developing theoretical and computational tools to solve analysis and synthesis problems involving complex dynamical systems The contributions provide a comprehensive picture of available results along with a stimulating view of possible directions for future investigations in the field Emphasis is placed on methods with solid computational background and on specific engineering applications so that readers from both theoretical and practical backgrounds will find this collection of use **Life-Cycle of Structures and Infrastructure Systems** Fabio Biondini, Dan M.

Frangopol, 2023-06-28 Life Cycle of Structures and Infrastructure Systems collects the lectures and papers presented at IALCCE 2023 The Eighth International Symposium on Life Cycle Civil Engineering held at Politecnico di Milano Milan Italy 2 6 July 2023 This Open Access Book contains the full papers of 514 contributions including the Fazlur R Khan Plenary Lecture nine Keynote Lectures and 504 technical papers from 45 countries The papers cover recent advances and cutting edge

research in the field of life cycle civil engineering including emerging concepts and innovative applications related to life cycle design assessment inspection monitoring repair maintenance rehabilitation and management of structures and infrastructure systems under uncertainty Major topics covered include life cycle safety reliability risk resilience and sustainability life cycle damaging processes life cycle design and assessment life cycle inspection and monitoring life cycle maintenance and management life cycle performance of special structures life cycle cost of structures and infrastructure systems and life cycle oriented computational tools among others This Open Access Book provides an up to date overview of the field of life cycle civil engineering and significant contributions to the process of making more rational decisions to mitigate the life cycle risk and improve the life cycle reliability resilience and sustainability of structures and infrastructure systems exposed to multiple natural and human made hazards in a changing climate It will serve as a valuable reference to all concerned with life cycle of civil engineering systems including students researchers practitioners consultants contractors decision makers and representatives of managing bodies and public authorities from all branches of civil engineering

Advances in Variable Structure Systems and Sliding Mode Control—Theory and Applications Shihua Li,Xinghuo Yu,Leonid Fridman,Zhihong Man,Xiangyu Wang,2017-08-10 This book reflects the latest developments in variable structure systems VSS and sliding mode control SMC highlighting advances in various branches of the VSS SMC field e g from conventional SMC to high order SMC from the continuous time domain to the discrete time domain from theories to applications etc The book consists of three parts and 16 chapters in the first part new VSS SMC algorithms are proposed and their properties are analyzed while the second focuses on the use of VSS SMC techniques to solve a variety of control problems the third part examines the applications of VSS SMC to real time systems The book introduces postgraduates and researchers to the state of the art in VSS SMC field including the theory methodology and applications Relative academic disciplines include Automation Mathematics Electrical Engineering Mechanical Engineering Instrument Science and Engineering Electronic Engineering Computer Science and Technology Transportation Engineering Energy and Power Engineering etc Plug-and-play control of interconnected systems Sven Bodenburg,2017 In the networked control of interconnected systems the communication network is primarily used for the exchange of measurements amongst the control stations Plug and play control extends the usage of this network towards the exchange of models with the aim to automatically design control stations at runtime Therefore every subsystem is equipped with a design agent that initially knows only the model of its subsystem To design a control station by a design agent first a suitable model of the subsystem that interacts with other subsystems has to be set up Second local design conditions have to be found that guarantee the adherence of the global control aim If the designed control station is finally plugged into the control equipment the overall closed loop system plays as desired The focus of this thesis is to enable the design agent to accomplish the controller design Therefore three approaches are proposed which focus on the accuracy of the model that is used for the design with respect

to the achievable overall closed loop performance The main result is a novel concept for the self organised controller design by means of design agents This concept is applied to achieve fault tolerance and to integrate new subsystems The proposed methods are tested and evaluated through simulations and experiments on a thermofluid process and a multizone furnace

The Mathematics of Networks of Linear Systems Paul A. Fuhrmann,Uwe Helmke,2015-05-26 This book provides the mathematical foundations of networks of linear control systems developed from an algebraic systems theory perspective This includes a thorough treatment of questions of controllability observability realization theory as well as feedback control and observer theory The potential of networks for linear systems in controlling large scale networks of interconnected dynamical systems could provide insight into a diversity of scientific and technological disciplines The scope of the book is quite extensive ranging from introductory material to advanced topics of current research making it a suitable reference for graduate students and researchers in the field of networks of linear systems Part I can be used as the basis for a first course in Algebraic System Theory while Part II serves for a second advanced course on linear systems Finally Part III which is largely independent of the previous parts is ideally suited for advanced research seminars aimed at preparing graduate students for independent research Mathematics of Networks of Linear Systems contains a large number of exercises and examples throughout the text making it suitable for graduate courses in the area

Variable Structure Control of Complex Systems Xing-Gang Yan,Sarah K. Spurgeon,Christopher Edwards,2016-12-05 This book systematizes recent research work on variable structure control It is self contained presenting necessary mathematical preliminaries so that the theoretical developments can be easily understood by a broad readership The text begins with an introduction to the fundamental ideas of variable structure control pertinent to their application in complex nonlinear systems In the core of the book the authors lay out an approach suitable for a large class of systems that deals with system uncertainties with nonlinear bounds Its treatment of complex systems in which limited measurement information is available makes the results developed convenient to implement Various case study applications are described from aerospace through power systems to river pollution control with supporting simulations to aid the transition from mathematical theory to engineering practicalities The book addresses systems with nonlinearities time delays and interconnections and considers issues such as stabilization observer design and fault detection and isolation It makes extensive use of numerical and practical examples to render its ideas more readily absorbed Variable Structure Control of Complex Systems will be of interest to academic researchers studying control theory and its application in nonlinear time delayed an modular large scale systems the robustness of its approach will also be attractive to control engineers working in industries associate with aerospace electrical and mechanical engineering

System, Structure and Control 2004 Sabine Mondie,2005-05-11

Variable-Structure Approaches Andreas Rauh,Luise Senkel,2016-05-17 This edited book aims at presenting current research activities in the field of robust variable structure systems The scope equally comprises highlighting novel methodological aspects as well as presenting the use of

variable structure techniques in industrial applications including their efficient implementation on hardware for real time control The target audience primarily comprises research experts in the field of control theory and nonlinear dynamics but the book may also be beneficial for graduate students

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