

Jochen Schröder

# Modelling, State Observation and Diagnosis of Quantised Systems



Springer

# Modelling State Observation And Diagnosis Of Quantised Systems

**Andrzej Janczak**



## **Modelling State Observation And Diagnosis Of Quantised Systems:**

*Modelling, State Observation and Diagnosis of Quantised Systems* Jochen Schröder, 2003-07-01 Ongoing advances in science and engineering enable mankind to design and operate increasingly sophisticated systems Both their design and operation require the understanding of the system and its interaction with the environment This necessitates the formalisation of the knowledge about the system by models A major issue is what kind of model is best suited for a given task This book is about the supervision of continuous dynamical systems Such systems are typically described by differential equations However this does not automatically mean that differential equations are proper models for solving supervision tasks Instead this book and recent approaches in literature show that supervision tasks do in general not require the use of such precise models as differential equations This is of interest because uncertainties typically occurring in supervision make the use of precise models very difficult Alternative approaches therefore use less precise models such as discrete event descriptions to solve supervision tasks on a higher level of abstraction Discrete event descriptions in form of automata are one of the key elements of this book To reach this higher level of abstraction uncertainties by quantisation are introduced on purpose taking into account a loss of precision This is one of the main difference to other approaches When using numerical models like transfer functions or differential equations uncertainties make the analysis more difficult Not so here where the system is described on a qualitative level on which uncertainties are naturally incorporated The book presents a new way to describe systems for supervision Preparing this book I learned that the key to solve supervision problems is simplicity

Modeling and Partially Coordinated Diagnosis of Asynchronous Discrete-Event Systems Sebastian Drüppel, 2012 This work presents a novel approach to modeling analysis and diagnosis of coupled mechatronical systems with partially autonomous behavior and asynchronous state transitions The systems under consideration are assumed to have the following properties The internal interactions are immeasurable but reliable and the measurements relevant for diagnosis are given as a sequence of events Asynchronous networks of input output automata I/O automata are developed to cope with partial coupling between components and to reduce the computational complexity of the diagnostic algorithms I/O automata are used to model those components Their measurable inputs and outputs are modeled as control signals Interconnection signals are used to model the internal dependencies among the components They are linked via an interaction block to one another The criterion known from synchronous networks of I/O automata is extended to ensure the well posedness of this modeling formalism To check for partially autonomous behavior two types of autonomy are introduced and discussed Structural autonomy and state dependent autonomy To carry out the diagnosis three different information structures are investigated Centralized decentralized and partially coordinated The centralized approach yields the ideal diagnostic result but reduction of the computational complexity by using online composition is rather small Further reduction of the computational complexity is accomplished by decentralized diagnosis It yields only in the case of state dependent autonomy a complete and

sound diagnostic result In general the lack of soundness arises Both obtaining an ideal diagnostic result and reducing the computational complexity is obtained by the partially coordinated diagnostic algorithm

**Diagnosis and Fault-Tolerant Control** Mogens Blanke, Michel Kinnaert, Jan Lunze, Marcel Staroswiecki, 2013-03-14 Technological systems are vulnerable to faults Actuator faults reduce the performance of control systems and may even cause a complete break down of the system Erroneous sensor readings are the reason for operating points that are far from the optimal ones Wear reduces the efficiency and quality of a production line In most fault situations the system operation has to be stopped to avoid damage to machinery and humans As a consequence the detection and the handling of faults play an increasing role in modern technology where many highly automated components interact in a complex way and where a fault in a single component may cause the malfunction of the whole system Due to the simultaneously increasing economic demands and the numerous ecological and safety restrictions to be met high dependability of technological systems has become a dominant goal in industry in the recent years This book introduces the main ideas of fault diagnosis and fault tolerant control It gives a thorough survey of the new methods that have been developed in the recent years and demonstrates them by application examples To the knowledge of the authors all major aspects of fault tolerant control are treated for the first time in a single book from a common viewpoint

*Robotic Welding, Intelligence and Automation* Tzyh-Jong Tarn, Shan-Ben Chen, Changjiu Zhou, 2004-03-10 This research report brings together present trends in advanced welding robots robotic welding artificial intelligent and automatic welding It includes important technical subjects on welding robots such as intelligent technologies and systems and design and analysis Modeling identification and control of the welding process are presented as well as knowledge based systems for welding and tele robotic welding Other topics covered are sensing and data fusion computer vision and virtual reality applications of the welding process An overview of intelligent and flexible manufacturing systems is given in addition to artificial intelligent technologies for industrial processes

**Bifurcation Control** Guanrong Chen, David John Hill, Xinghuo Yu, 2003-08-26 Bifurcation control refers to the task of designing a controller that can modify the bifurcation properties of a given nonlinear system so as to achieve some desirable dynamical behaviors There exists no similar control theory oriented book available in the market that is devoted to the subject of bifurcation control written by control engineers for control engineers World renowned leading experts in the field provide their state of the art survey about the extensive research that has been done over the last few years in this subject The book is not only aimed at active researchers in the field of bifurcation control and its applications but also at a general audience in related fields

**Discrete Event Systems 2004 (WODES'04)** Janan Zaytoon, 2005-12-22 Approx 484 pages

Advances in Communication Control Networks Sophie Tarbouriech, Chaouki T. Abdallah, John Chiasson, 2004-09-22 The area of communication and computer networks has become a very active field of research by the control systems community in the last years Tools from convex optimization and control theory are playing increasing roles in efficient network utilization fair resource allocation and

communication delay accommodation and the field of Networked Control systems is fast becoming a mainstay of control systems research and applications This carefully edited book brings together solicited contributions from experts in the various areas of communication control networks referring to both networks under control control in networks as well as networked control systems control over networks The aim of this book is to reverse the trend of fragmentation and specialization in Communication Control Networks connecting various interdisciplinary research fields including control communication applied mathematics and computer science     Chaos Control Guanrong Chen,Xinghuo Yu,2003-07-25 Chaos control refers to purposefully manipulating chaotic dynamical behaviors of some complex nonlinear systems There exists no similar control theory oriented book available in the market that is devoted to the subject of chaos control written by control engineers for control engineers World renowned leading experts in the field provide their state of the art survey about the extensive research that has been done over the last few years in this subject The new technology of chaos control has major impact on novel engineering applications such as telecommunications power systems liquid mixing internet technology high performance circuits and devices biological systems modeling like the brain and the heart and decision making The book is not only aimed at active researchers in the field of chaos control involving control and systems engineers theoretical and experimental physicists and applied mathematicians but also at a general audience in related fields     *Identification of Nonlinear Systems Using Neural Networks and Polynomial Models* Andrzej Janczak,2004-11-18 This monograph systematically presents the existing identification methods of nonlinear systems using the block oriented approach It surveys various known approaches to the identification of Wiener and Hammerstein systems which are applicable to both neural network and polynomial models The book gives a comparative study of their gradient approximation accuracy computational complexity and convergence rates and furthermore presents some new and original methods concerning the model parameter adjusting with gradient based techniques Identification of Nonlinear Systems Using Neural Networks and Polynomial Models is useful for researchers engineers and graduate students in nonlinear systems and neural network theory

**Handbook of Hybrid Systems Control** Jan Lunze,Françoise Lamnabhi-Lagarrigue,2009-10-15 Sets out core theory and reviews new methods and applications to show how hybrid systems can be modelled and understood     **Fault Detection, Supervision and Safety of Technical Processes 2006** Hong-Yue Zhang,2007-03-01 The safe and reliable operation of technical systems is of great significance for the protection of human life and health the environment and of the vested economic value The correct functioning of those systems has a profound impact also on production cost and product quality The early detection of faults is critical in avoiding performance degradation and damage to the machinery or human life Accurate diagnosis then helps to make the right decisions on emergency actions and repairs Fault detection and diagnosis FDD has developed into a major area of research at the intersection of systems and control engineering artificial intelligence applied mathematics and statistics and such application fields as chemical electrical mechanical and aerospace engineering

IFAC has recognized the significance of FDD by launching a triennial symposium series dedicated to the subject The SAFEPROCESS Symposium is organized every three years since the first symposium held in Baden Baden in 1991 SAFEPROCESS 2006 the 6th IFAC Symposium on Fault Detection Supervision and Safety of Technical Processes was held in Beijing PR China The program included three plenary papers two semi plenary papers two industrial talks by internationally recognized experts and 258 regular papers which have been selected out of a total of 387 regular and invited papers submitted Discusses the developments and future challenges in all aspects of fault diagnosis and fault tolerant control 8 invited and 36 contributed sessions included with a special session on the demonstration of process monitoring and diagnostic software tools *Hybrid Systems: Computation and Control* Alberto Bemporad, Giorgio C Buttazzo, Antonio Bicchi, 2007-05-31 This book constitutes the refereed proceedings of the 10th International Conference on Hybrid Systems Computation and Control HSCC 2007 held in Pisa Italy in April 2007 Among the topics addressed are models of heterogeneous systems computability and complexity issues real time computing and control embedded and resource aware control control and estimation over wireless networks and programming languages support and implementation *Control Reconfiguration of Dynamical Systems* Thomas Steffen, 2005-08-31 Reconfiguration an approach for fault tolerant control involves changing the control structure in response to the fault This monograph extends this idea to actuator faults and studies in detail the so called virtual actuator approach Control Reconfiguration of Dynamical Systems also introduces structural analysis as a tool for reconfiguration Because a fault changes the structure of the system the reconfiguration solution is sought on a structural level Novel algorithms are presented to test for reconfigurability and to find a reconfiguration solution A MATLAB toolbox is supplied which contains the main algorithms and examples The book addresses advanced engineering students developers and researchers that have a specific interest in control reconfiguration

**Applications and Innovations in Intelligent Systems XII** Ann Macintosh, Richard Ellis, Tony Allen, 2007-12-31 A L Macintosh Napier University UK The papers in this volume are the refereed application papers presented at ES2004 the Twenty fourth SGAI International Conference on Innovative Techniques and Applications of Artificial Intelligence held in Cambridge in December 2004 The conference was organised by SGAI the British Computer Society Specialist Group on Artificial Intelligence This volume contains twenty refereed papers which present the innovative application of a range of AI techniques in a number of subject domains This year the papers are divided into sections on Synthesis and Prediction Scheduling and Search Diagnosis and Monitoring Classification and Design and Analysis and Evaluation This year s prize for the best refereed application paper which is being sponsored by the Department of Trade and Industry was won by a paper entitled A Case Based Technique for Tracking Concept Drift in Spam Filtering The authors are Sarah Jane Delany from the Dublin Institute of Technology Ireland and Padraig Cunningham Alexey Tsymbal and Lorcan Coyle from Trinity College Dublin Ireland This is the twelfth volume in the Applications and Innovations series The Technical Stream papers are

published as a companion volume under the title Research and Development in Intelligent Systems XXI On behalf of the conference organising committee I should like to thank all those who contributed to the organisation of this year's application programme in particular the programme committee members the executive programme committee and our administrators Linsay Turbert and Collette Jackson

*New Directions and Applications in Control Theory* Wijesuriya P. Dayawansa, Anders Lindquist, Yishao Zhou, 2005-08-31 This volume contains a collection of papers in control theory and applications presented at a conference in honor of Clyde Martin on the occasion of his 60th birthday held in Lubbock Texas November 14 15 2003

**Unsolved Problems in Mathematical Systems and Control Theory** Vincent D. Blondel, Alexandre Megretski, 2009-04-11 This book provides clear presentations of more than sixty important unsolved problems in mathematical systems and control theory Each of the problems included here is proposed by a leading expert and set forth in an accessible manner Covering a wide range of areas the book will be an ideal reference for anyone interested in the latest developments in the field including specialists in applied mathematics engineering and computer science The book consists of ten parts representing various problem areas and each chapter sets forth a different problem presented by a researcher in the particular area and in the same way description of the problem motivation and history available results and bibliography It aims not only to encourage work on the included problems but also to suggest new ones and generate fresh research The reader will be able to submit solutions for possible inclusion on an online version of the book to be updated quarterly on the Princeton University Press website and thus also be able to access solutions updated information and partial solutions as they are developed

Identification and Fault Diagnosis of Industrial Closed-loop Discrete Event Systems Matthias Roth, 2010 Die Wettbewerbsfähigkeit von Industrieunternehmen hängt massgeblich von der Produktivität der eingesetzten Anlagen und Produktionsprozesse ab Um ein hohes Mass an Produktivität zu garantieren müssen durch Fehler verursachte Standzeiten so kurz wie möglich gehalten werden Dazu werden effiziente Methoden zur Fehlerdiagnose benötigt In der vorliegenden Arbeit wurde ein modellbasiertes Diagnose Verfahren für ereignisdiskrete Closed Loop Systeme entwickelt Die betrachteten Systeme bestehen aus dem geschlossenen Kreis von Steuerung und Prozess Durch den systematischen Vergleich von aktuell beobachtetem und durch ein Systemmodell erwartetem Verhalten können Fehler in Echtzeit erkannt und isoliert werden In der Arbeit wurden geeignete Modellidentifikationsverfahren für Ereignisdiskrete Systeme entwickelt sodass die aufwändige manuelle Modellbildung vermieden wird Die entwickelten Methoden wurden im Labor und im Rahmen einer Industrieanwendung erfolgreich getestet

Control of Uncertain Systems: Modelling, Approximation, and Design Bruce A. Francis, 2006-03-07 This Festschrift contains a collection of articles by friends co authors colleagues and former Ph D students of Keith Glover Professor of Engineering at the University of Cambridge on the occasion of his sixtieth birthday Professor Glover's scientific work spans a wide variety of topics the main themes being system identification model reduction and approximation robust controller synthesis and control of aircraft and

engines The articles in this volume are a tribute to Professor Glover's seminal work in these areas      **Advanced Topics in Control Systems Theory** Françoise Lamnabhi-Lagarrigue, 2005-02-11 Advanced Topics in Control Systems Theory contains selected contributions written by lecturers at the second annual Formation d'Automatique de Paris FAP Graduate Control School in Paris It is addressed to graduate students and researchers in control theory with topics touching on a variety of areas of interest to the control community such as cascaded systems flatness optimal control and Hamiltonian and infinite dimensional systems The reader is provided with a well integrated synthesis of the latest thinking in these subjects without the need for an exhaustive literature review The internationally known contributors to this volume represent many of the most reputable control centers in Europe Advanced Topics in Control Systems Theory can be used to support either a one term general advanced course on nonlinear control theory devoting a few lectures to each chapter or for more focused and intensive courses at graduate level The book's concise but pedagogical manner will give an ideal start to researchers wishing to broaden their knowledge in aspects of modern control theory outside their own expertise      *Cooperative Control* Vijay Kumar, Naomi Leonard, A. Stephen Morse, 2004-10-20 Are there universal principles of coordinated group motion and if so what might they be This carefully edited book presents how natural groupings such as fish schools bird flocks deer herds etc coordinate themselves and move so flawlessly often without an apparent leader or any form of centralized control It shows how the underlying principles of cooperative control may be used for groups of mobile autonomous agents to help enable a large group of autonomous robotic vehicles in the air on land or sea or underwater to collectively accomplish useful tasks such as distributed adaptive scientific data gathering search and rescue or reconnaissance



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