

manufacturing systems, air traffic control systems etc. This project will cover the fundamental concepts in modeling and analysis of Stochastic Discrete Event Systems, with an emphasis on understanding computer and communication networks.

Abstract

Implementation of complex discrete event manufacturing systems can be considerably simplified by use of general reusable software modules, representing the physical components. At the same time, construction of the control system can be facilitated by use of formal methods for automatic generation of the control laws. These two aspects can be joined into a general concept with object oriented modeling and control law synthesis as foundations. The goal is to allow an operator to specify the product routes through the system, for each type of product, irrespective of any other type of product that may be simultaneously present within the production system. Control laws guaranteeing production according to these product specifications can then be synthesized, given the model of the system. We will describe such an object-oriented modeling approach to discrete event manufacturing systems. Based on the supervisory control theory, using interleaved product routes as specification, it is shown how control laws can be synthesized. An added complexity is that such a specification becomes nondeterministic in the sense that the same string of events can lead to different system states. We have shown that the supervisory control theory can indeed be used with nondeterministic specifications, but also that the notion of controllability is not strong enough to guarantee an implementable supervisor.

2)

We propose a logical framework for the control theory of reactive systems modeled by discrete event systems. The logic is the conjunctive μ -calculus, an expressive fragment of the powerful μ -calculus. Conjunctive μ -calculus possesses an alternative presentation based on modal specifications, with simple graphical representations. We exploit modal specification to specify and to solve the basic centralized control problem: our class of control objectives strictly subsumes the class of regular languages, normally used in the classic control theory of discrete-event systems, but the existence of maximally permissive solutions is however preserved.

Examples of DES are

- Traffic Control Systems
- Automated Manufacturing Systems
- Computer and Communication Networks
- Embedded and Networked Systems and
- Software Systems.

Discrete Event Systems Manufacturing Systems And Communication Networks

Jean-Pierre Brans



Discrete Event Systems Manufacturing Systems And Communication Networks:

Discrete Event Systems, Manufacturing Systems, and Communication Networks P.R. Kumar,P.P.

Varaiya,2012-12-06 This IMA Volume in Mathematics and its Applications DISCRETE EVENT SYSTEMS MANUFACTURING SYSTEMS AND COMMUNICATION NETWORKS is based on the proceedings of a workshop that was an integral part of the 1992 93 IMA program on Control Theory The study of discrete event dynamical systems DEDS has become rapidly popular among researchers in systems and control in communication networks in manufacturing and in distributed computing This development has created problems for re searchers and potential consumers of the research The first problem is the veritable Babel of languages formalisms and approaches which makes it very difficult to determine the commonalities and distinctions among the competing schools of approaches The second related problem arises from the different traditions paradigms values and experience that scholars bring to their study of DEDS depending on whether they come from control com munication computer science or mathematical logic As a result intellectual exchange among scholars becomes compromised by unexplicated assumptions The purpose of the Workshop was to promote exchange among scholars representing some of the major schools of thought in DEDS with the hope that 1 greater clarity will be achieved thereby and 2 cross fertilization will lead to more fruitful questions We thank P R Kumar and P P Varaiya for organizing the workshop and editing the proceedings We also take this opportunity to thank the National Science Foundation and the Army Research Office whose financial support made the workshop possible A vner Friedman Willard Miller Jr

Manufacturing Systems Engineering Katsundo Hitomi,2017-10-19 This second edition of the classic textbook has been written to provide a completely up to date text for students of mechanical industrial manufacturing and production engineering and is an indispensable reference for professional industrial engineers and managers In his outstanding book Professor Katsundo Hitomi integrates three key themes into the text manufacturing technology production management industrial economics Manufacturing technology is concerned with the flow of materials from the acquisition of raw materials through conversion in the workshop to the shipping of finished goods to the customer Production management deals with the flow of information by which the flow of materials is managed efficiently through planning and control techniques Industrial economics focuses on the flow of production costs aiming to minimise these to facilitate competitive pricing Professor Hitomi argues that the fundamental purpose of manufacturing is to create tangible goods and it has a tradition dating back to the prehistoric toolmakers The fundamental importance of manufacturing is that it facilitates basic existence it creates wealth and it contributes to human happiness manufacturing matters Nowadays we regard manufacturing as operating in these other contexts beyond the technological It is in this unique synthesis that Professor Hitomi s study constitutes a new discipline manufacturing systems engineering a system that will promote manufacturing excellence Key Features The classic textbook in manufacturing engineering Fully revised edition providing a modern introduction to manufacturing technology production

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a pivotal need for an innovative compendium encompassing the latest trends concepts and issues surrounding this relevant discipline area During the past 15 years the Encyclopedia of Information Science and Technology has become recognized as one of the landmark sources of the latest knowledge and discoveries in this discipline The Encyclopedia of Information Science and Technology Fourth Edition is a 10 volume set which includes 705 original and previously unpublished research articles covering a full range of perspectives applications and techniques contributed by thousands of experts and researchers from around the globe This authoritative encyclopedia is an all encompassing well established reference source that is ideally designed to disseminate the most forward thinking and diverse research findings With critical perspectives on the impact of information science management and new technologies in modern settings including but not limited to computer science education healthcare government engineering business and natural and physical sciences it is a pivotal and relevant source of knowledge that will benefit every professional within the field of information science and technology and is an invaluable addition to every academic and corporate library *Communication Networks for Manufacturing* Juan R.

Pimentel,1990 Very Good No Highlights or Markup all pages are intact **Applications and Theory of Petri Nets 2003** Wil van der Aalst,Eike Best,2007-09-04 The refereed proceedings of the 24th International Conference on Applications and Theory of Petri Nets ICATPN 2003 held in Eindhoven The Netherlands in June 2003 The 25 revised full papers presented together with 6 invited contributions were carefully reviewed and selected from 77 submissions All current issues on research and development in the area of Petri nets are addressed in particular concurrent systems design and analysis model checking networking business process modeling formal methods in software engineering agent systems systems specification systems validation discrete event systems protocols and prototyping Optimal Supervisory Control of Automated Manufacturing Systems Yufeng Chen,Zhiwu Li,2013-01-23 This monograph presents the state of the art developments in the design of behaviorally and structurally optimal livenessen forcing Petri net supervisors with computationally tractable approaches It details optimal supervisory control problems arising in automated production systems and outlines a methodology to achieve the optimality purposes of deadlock prevention via converting a variety of problems under consideration into integer linear programming models The book includes a reference bibliography at the end of each chapter and a complete index **Discrete Event Hybrid Systems in Robotics and Automation** Tarek M. Sobh,2006 The underlying mathematical representation of complex robotic and manufacturing computer controlled systems is still insufficient to create a set of models which accurately captures the dynamics of the system over the entire range of system operation We remain in a situation where we must trade of the accuracy of our models with the manageability of the models Closed form solutions of mathematical models are almost exclusively limited to linear system models Computer simulation of non linear hybrid and discrete event models provide a means for online design of robotic control systems Guarantees of system performance are limited to those regions where the robustness conditions apply These conditions may not apply

during start up and shutdown or during periods of anomalous operation Attempts have been made to model low and high level system changes in automated and robotic systems as discrete event dynamic systems DEDS and hybrid systems Several attempts to improve modelling capabilities are focused on mapping the continuous world into a discrete one However repeated results are available which indicate that large interactive systems evolve into states where minor events can lead to a catastrophe Discrete event and hybrid systems have been used in the manufacturing and automation domains to model system state changes within a process Timed and untimed petri nets and state automata in addition to Markovian stochastic perturbation and other models have been used extensively to model and control automated manufacturing systems High level DEDS controllers have also been to guide the behaviour of robots based on sensory outputs This book presents a collection of problems modelling strategies analysis tools and theoretical frameworks for discrete events and hybrid systems within the robotics and automation domain

Modeling and Control of Automated Manufacturing Systems Alan A. Desrochers,1990 **Mathematical Reviews** ,1996 **Production Variability in Manufacturing Systems** Jingshan Li,2000 *Intelligent Manufacturing Systems 1995* I. Dumitrache,1997-06-03 Robotics Computer Integrated Manufacturing and Artificial Intelligence were for a long time headlines in production automation and a lot of scientific events dealt with these three main topics During the last six years however methods of Artificial Intelligence have been implemented more and more in production automation especially in production planning control and supervision This has lead to new headlines about Intelligent Computer Integrated Manufacturing ICIM or Intellligent Manufacturing Systems IMS which have become important for the computer controlled factory of the future This third IFAC workshop on Intelligent Manufacturing Systems continued discussions and the exchange of research results that began with the previous two workshops in Dearborn USA in 1992 and in Vienna Austria in 1994 It included presentations about manufacturing systems operations manufacturing processes manufacturing planning concurrent engineering object oriented design simulation and fault detection

Proceedings of the 1988 IEEE International Conference on Systems, Man and Cybernetics, August 8-12, 1988, Beijing and Shenyang, China ,1988 **Operational Research '84** Jean-Pierre Brans,1984 *Proceedings of the Japan-U.S.A. Symposium on Flexible Automation* ,1992 **Distributed Intelligence Systems 1991** International Federation of Automatic Control,1992-04-03 Containing 41 papers this volume focuses on recent advances in the field of intelligent systems

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