

SYNTHESIS AND CONTROL OF DISCRETE EVENT SYSTEMS

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Synthesis And Control Of Discrete Event Systems

**American Institute of Chemical
Engineers**



Synthesis And Control Of Discrete Event Systems:

Synthesis and Control of Discrete Event Systems Benoît Caillaud, 2002-01-31 The first motivation of Synthesis and Control of Discrete Event Systems is to inform the reader of recent developments and current trends in system synthesis This is a field of active research aiming to supply efficient techniques for developing safe systems in various areas covering control of embedded and manufacturing systems distributed implementation of systems and protocols and hardware circuits In all areas considerations about distribution and care for an efficient implementation of the synthesised systems play an increasing role justified by better applicability to problems encountered in the design of practical systems The second motivation of the book which is a selection of presentations given at two workshops on synthesis of controllers and on synthesis of concurrent systems is to incite the research community to establish stronger links between two subjects that could be better related as several presentations do show The selected papers are research papers ranging from theory to practice with automata products of automata and Petri nets playing a prominent role All areas mentioned above as areas of application of system synthesis are covered by some of the selected papers Discrete Event Systems 2004 (WODES'04) Janan Zaytoon, 2005-12-22 Approx 484 pages **Discrete Event Systems** R. Boel, Geert Stremersch, 2012-12-06 Discrete Event Systems Analysis and Control is the proceedings of WODES2000 the 5th Workshop on Discrete Event Systems held in Ghent Belgium on August 21 23 2000 This book provides a survey of the current state of the art in the field of modeling analysis and control synthesis of discrete event systems lecture notes for a mini course on sensitivity analysis for performance evaluation of timed discrete event systems and 48 carefully selected papers covering all areas of discrete event theory and the most important applications domains Topics include automata theory and supervisory control 12 Petri net based models for discrete event systems and their control synthesis 11 max and timed automata models 9 applications papers related to scheduling failure detection and implementation of supervisory controllers 7 formal description of PLCs 6 and finally stochastic models of discrete event systems 3 Petri Net Synthesis for Discrete Event Control of Manufacturing Systems MengChu Zhou, F. Dicesare, 2012-12-06 Petri Net Synthesis for Discrete Event Control of Manufacturing Systems develops two essential resource sharing concepts parallel and sequential mutual exclusions and theoretical results in Petri synthesis A parallel mutual exclusion PME is defined to model a resource shared by independent distributed processes and a sequential mutual exclusion is a sequential composition of PMEs modeling a resource shared by sequentially related processes A hybrid synthesis methodology for Petri net models and controllers is proposed using top down modular and bottom up design ideas and the mutual exclusion theory An aggregate Petri net model is refined by replacing places and or transitions with basic design modules which are mathematically and graphically described Petri net design methods are presented for such buffers as automatic storage and retrieval systems Using the proposed method synthesizes both Petri net structure and feasible initial markings guaranteeing that resulting Petri nets have desirable system properties such as

freedom from deadlock and cyclic behavior A Petri net controller is extended to error recovery for automated manufacturing systems The theory can guarantee that the desired system properties achieved by the original design will be preserved when the controller is augmented to deal with an error in the prescribed methods Control code has been directly generated from Petri net definitions The algorithm and implementation details are given for a flexible manufacturing system Using the approach presented in Petri Net Synthesis for Discrete Event Control of Manufacturing Systems engineers and research workers can develop their own discrete event control applications and experiments

Formal Methods in Manufacturing Systems: Recent Advances Li, Zhiwu, 2013-05-31 Evolving technologies in mass production have led to the development of advanced techniques in the field of manufacturing These technologies can quickly and effectively respond to various market changes necessitating processes that focus on small batches of multiple products rather than large single product lines Formal Methods in Manufacturing Systems Recent Advances explores this shifting paradigm through an investigation of contemporary manufacturing techniques and formal methodologies that strive to solve a variety of issues arising from a market environment that increasingly favors flexible systems over traditional ones This book will be of particular use to industrial engineers and students of the field who require a detailed understanding of current trends and developments in manufacturing tools This book is part of the Advances in Civil and Industrial Engineering series collection

AIChE Symposium Series American Institute of Chemical Engineers, 1997

Hardware and Software: Verification and Testing Ofer Strichman, Rachel Tzoref-Brill, 2017-11-11 This book constitutes the refereed proceedings of the 13th International Haifa Verification Conference HVC 2017 held in Haifa Israel in November 2017 The 13 revised full papers presented together with 4 poster and 5 tool demo papers were carefully reviewed and selected from 45 submissions They are dedicated to advance the state of the art and state of the practice in verification and testing and are discussing future directions of testing and verification for hardware software and complex hybrid systems

Proceedings of IEEE International Conference on Industrial Technology 2000, 2000

Mathematical Foundations of Computer Science, 2003

Formal Methods for Industrial Critical Systems Gwen Salaün, Bernhard Schätz, 2011-09-19 This book constitutes the proceedings of the 16th International Workshop on Formal Methods for Industrial Critical Systems FMICS 2011 held in Trento Italy in August 2011 The 16 papers presented together with 2 invited talks were carefully reviewed and selected from 39 submissions The aim of the FMICS workshop series is to provide a forum for researchers who are interested in the development and application of formal methods in industry It also strives to promote research and development for the improvement of formal methods and tools for industrial applications

Balanced Automation Systems Luis M. Camarinha-Matos, Hamideh Afsarmanesh, 2013-06-05 Towards Balanced Automation The concept Manufacturing industries worldwide are facing tough challenges as a consequence of the globalization of economy and the openness of the markets Progress of the economic blocks such as the European Union NAFTA and MERCOSUR and the global agreements such as GATT in addition to their

obvious economic and social consequences provoke strong paradigm shifts in the way that the manufacturing systems are conceived and operate To increase profitability and reduce the manufacturing costs there is a recent tendency towards establishing partnership links among the involved industries usually between big industries and the networks of components suppliers To benefit from the advances in technology similar agreements are being established between industries and universities and research institutes Such an open cooperation network may be identified as an extended enterprise or a virtual enterprise In fact the manufacturing process is no more carried out by a single enterprise rather each enterprise is just a node that adds some value a step in the manufacturing chain to the cooperation network of enterprises The new trends create new scenarios and technological challenges especially to the Small and Medium size Enterprises SMEs that clearly comprise the overwhelming majority of manufacturing enterprises worldwide Under the classical scenarios these SMEs would have had big difficulties to access or benefit from the state of the art technology due to their limited human financial and material resources

Proceedings of 1995 IEEE International Conference on Robotics and Automation, May 21-27, 1995, Nagoya, Aichi, Japan IEEE Robotics and Automation Society, 1995

Supervisory Control of Discrete-Event Systems W. Murray Wonham, Kai Cai, 2018-08-17 This book shows how supervisory control theory SCT supports the formulation of various control problems of standard types like the synthesis of controlled dynamic invariants by state feedback and the resolution of such problems in terms of naturally definable control theoretic concepts and properties like reachability controllability and observability It exploits a simple abstract model of controlled discrete event systems DES that has proved to be tractable appealing to control specialists and expressive of a range of control theoretic ideas It allows readers to choose between automaton based and dually language based forms of SCT depending on whether their preference is for an internal structural or external behavioral description of the problem The monograph begins with two chapters on algebraic and linguistic preliminaries and the fundamental concepts and results of SCT are introduced To handle complexity caused by system scale architectural approaches the horizontal modularity of decentralized and distributed supervision and the vertical modularity of hierarchical supervision are introduced Supervisory control under partial observation and state based supervisory control are also addressed in the latter a vector DES model that exploits internal regularity of algebraic structure is proposed Finally SCT is generalized to deal with timed DES by incorporating temporal features in addition to logical ones Researchers and graduate students working with the control of discrete event systems or who are interested in the development of supervisory control methods will find this book an invaluable aid in their studies The text will also be of assistance to researchers in manufacturing logistics communications and transportation areas which provide plentiful examples of the class of systems being discussed

Proceedings, 1985 *First International Workshop on Intelligent Manufacturing Systems (IMS-EUROPE 1998)*, 1998

IEEE ... International Conference on Emerging Technologies and Factory Automation Proceedings, 1999

Proceedings of the ... Conference on Information Sciences and

Systems ,1994 **SCAI-95** Agnar Aamodt,Jan Komorowski,1995 **First International Conference on Intelligent Systems in Process Engineering** James F. Davis,George Stephanopoulos,Venkat Venkatasubramanian,1996 Proceedings of the July 1995 conference detailing state of the art developments in intelligent systems for various areas of process engineering Material from technical sessions looks at issues in monitoring analysis and synthesis of process operations intelligent control intelligence in integr *Intelligent Information and Database Systems* Ngoc-Thanh Nguyen,Bogdan Trawiński,Hamido Fujita,Tzung-Pei Hong,2016-03-08 The two volume proceedings of the ACIIDS 2016 conference LNAI 9621 9622 constitutes the refereed proceedings of the 8th Asian Conference on Intelligent Information and Database Systems held in Da Nang Vietnam in March 2016 The total of 153 full papers accepted for publication in these proceedings was carefully reviewed and selected from 392 submissions They were organized in topical sections named knowledge engineering and semantic Web social networks and recommender systems text processing and information retrieval database systems and software engineering intelligent information systems decision support and control systems machine learning and data mining computer vision techniques intelligent big data exploitation cloud and network computing multiple model approach to machine learning advanced data mining techniques and applications computational intelligence in data mining for complex problems collective intelligence for service innovation technology opportunity e learning and fuzzy intelligent systems analysis for image video and motion data in life sciences real world applications in engineering and technology ontology based software development intelligent and context systems modeling and optimization techniques in information systems database systems and industrial systems smart pattern processing for sports and intelligent services for smart cities

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