

Control Engineering Series

System Modeling and Control with Resource-Oriented Petri Nets



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Petri Nets For System Engineering

**Hartmut Ehrig, Wolfgang
Reisig, Grzegorz Rozenberg, Herbert
Weber**



Petri Nets For System Engineering:

Petri Nets for Systems Engineering Claude Girault, Rüdiger Valk, 2003 Using formal methods for the specification and verification of hardware and software systems is becoming increasingly important as systems increase in size and complexity The aim of the book is to illustrate progress in formal methods based on Petri net formalisms It presents both practical and theoretical foundations for the use of Petri nets in complex system engineering tasks In doing so it bridges the gap between Petri nets and the systems modeling and implementation process It contains a collection of examples arising from different fields such as flexible manufacturing telecommunication and workflow management systems

Petri Nets for Systems Engineering Claude Girault, Rüdiger Valk, 2013-01-08 Using formal methods for the specification and verification of hardware and software systems is becoming increasingly important as systems increase in size and complexity The aim of the book is to illustrate progress in formal methods based on Petri net formalisms It presents both practical and theoretical foundations for the use of Petri nets in complex system engineering tasks In doing so it bridges the gap between Petri nets and the systems modeling and implementation process It contains a collection of examples arising from different fields such as flexible manufacturing telecommunication and workflow management systems

Petri Nets for Systems Engineering Claude Girault, Rüdiger Valk, 2003 *The Impact of Petri Nets on System-of-systems Engineering* Kirsten Sinclair, 2009 Abstract The successful engineering of a large scale system of systems project towards deterministic behaviour depends on integrating autonomous components using international communications standards in accordance with dynamic requirements To date their engineering has been unsuccessful no combination of top down and bottom up engineering perspectives is adopted and information exchange protocol and interfaces between components are not being precisely specified Various approaches such as modelling and architecture frameworks make positive contributions to system of systems specification but their successful implementation is still a problem One of the most popular modelling notations available for specifying systems UML is intuitive and graphical but also ambiguous and imprecise Supplying a range of diagrams to represent a system under development UML lacks simulation and exhaustive verification capability This shortfall in UML has received little attention in the context of system of systems and there are two major research issues 1 Where the dynamic behavioural diagrams of UML can and cannot be used to model and analyse system of systems 2 Determining how Petri nets can be used to improve the specification and analysis of the dynamic model of a system of systems specified using UML This thesis presents the strengths and weaknesses of Petri nets in relation to the specification of system of systems and shows how Petri net models can be used instead of conventional UML Activity Diagrams The model of the system of systems can then be analysed and verified using Petri net theory The Petri net formalism of behaviour is demonstrated using two case studies from the military domain The first case study uses Petri nets to specify and analyse a close air support mission This case study concludes by indicating the strengths weaknesses and shortfalls of the proposed formalism in system of systems

specification The second case study considers specification of a military exchange network parameters problem and the results are compared with the strengths and weaknesses identified in the first case study Finally the results of the research are formulated in the form of a Petri net enhancement to UML mapping existing activity diagram elements to Petri net elements

Applications and Theory of Petri Nets Giuliana Franceschinis, 2009-06-09 This volume consists of the proceedings of the 30th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency PETRI NETS 2009 The Petri Net conferences serve as annual meeting places to discuss the progress in the field of Petri nets and related models of concurrency They provide a forum for researchers to present and discuss both applications and theoretical developments in this area Novel tools and substantial enhancements to existing tools can also be presented The satellite program of the conference comprised four workshops and seven tutorials This year the conference was co-located with the 20th IEEE IFIP International Symposium on Rapid System Prototyping RSP 2009 The two conferences shared invited speakers Detailed information about PETRI NETS 2009 can be found at <http://petrinets2009.lip6.fr> The PETRI NETS 2009 conference was organized by Universit e Pierre 1 Marie Curie as a part of MeFoSyLoMa gathering research teams from numerous universities in Ile de France CNAM ENS de Cachan Universit e Evry Val d'Essonne Universit e Paris Dauphine Universit e Paris 12 Universit e Paris 13 and Telecom Paris Tech It took place in Paris France during June 22-26 2009 We would like to express our deep thanks to the Organizing Committee chaired by Fabrice Kordon for the time and effort invested in the conference and for all the help with local organization

Petri Nets in System Engineering Berndt Farwer, 1997

Petri Nets for Modeling of Large Discrete Systems Reggie Davidrajuh, 2021-09-21 This book offers a new Modular Petri Net as a solution to the vast Petri net models It presents some approaches centering around modules known as Petri modules The goal of this book is to introduce a methodology in which Petri nets are moved to a new level In this new level large Petri net models are made of Petri modules which are independent and run on different computers This book also contains the literature study on modular Petri nets and definitions for the newer Petri modules Also algorithms for extracting Petri modules and algorithms for connecting Petri modules and applications are given in this book Besides the ideas and algorithms given in this book are implemented in the software General purpose Petri Net Simulator GPenSIM Hence with the use of this book the readers/users would be able to know that real life discrete event systems could be modeled analyzed and performance optimized with GPenSIM

System Modeling and Control with Resource-Oriented Petri Nets MengChu Zhou, Naiqi Wu, 2018-09-03 Petri nets are widely used in modeling analysis and control of discrete event systems arising from manufacturing transportation computer and communication networks and web service systems However Petri net models for practical systems can be very large making it difficult to apply such models to real life problems System Modeling and Control with Resource Oriented Petri Nets introduces a new resource oriented Petri net ROPN model that was developed by the authors Not only does it successfully reduce model size but it also offers improvements that facilitate effective modeling

analysis and control of automated and reconfigurable manufacturing systems Presenting the latest research in this novel approach this cutting edge volume provides proven theories and methodologies for implementing cost and time saving improvements to contemporary manufacturing systems It provides effective tools for deadlock avoidance deadlock free routing and deadlock free scheduling The authors supply simple and complex industrial manufacturing system examples to illustrate time tested concepts theories and approaches for solving real life application problems Written in a clear and concise manner the text covers applications to automated and reconfigurable manufacturing systems automated guided vehicle AGV systems semiconductor manufacturing systems and flexible assembly systems Explaining complex concepts in a manner that is easy to understand the authors provide the understanding and tools needed for more effective modeling analysis performance evaluation control and scheduling of engineering processes that will lead to more flexible and efficient manufacturing systems

Petri Net Technology for Communication-Based Systems Hartmut Ehrig,Wolfgang Reisig,Grzegorz Rozenberg,Herbert Weber,2003-11-25 This state of the art survey in the Advances in Petri Nets series reports how various well established and novel Petri net notions and techniques can be employed for modelling communication based systems with a particular focus on workflow management and business processes The book builds on the success of a special program of the German Science Foundation DFG on Petri Net Technology as well as on broad participation from the international Petri net research community

Application and Theory of Petri Nets 1998 Jörg Desel,Manuel Silva,2003-06-26 This volume contains the proceedings of the 19th annual International Conference on Application and Theory of Petri Nets The aim of the Petri net conference is to create a forum for the dissemination of the latest results in the application and theory of Petri nets It always takes place in the last week of June Typically there are 150 200 participants About one third of these come from industry while the rest are from universities and research institutions The conferences and a number of other activities are coordinated by a steering committee with the following members G Balbo Italy J Billington Australia G DeMichelis Italy C Girault France K Jensen Denmark S Kumagai Japan T Murata USA C A Petri Germany honorary member W Reisig Germany G Roucairol France G Rozenberg The Netherlands chairman M Silva Spain The 19th conference has been organized for the rst time in Portugal by the Department of Electrical Engineering of the Faculty of Sciences and Technology of the New University of Lisbon together with the Center for Intelligent Robotics of UNINOVA It takes place in Lisbon at the same time as EXPO 98 the last world exhibition of the 20th century

Understanding Petri Nets Wolfgang Reisig,2013-07-03 With their intuitive graphical approach and expressive analysis techniques Petri nets are suitable for a wide range of applications and teaching scenarios and they have gained wide acceptance as a modeling technique in areas such as software design and control engineering The core theoretical principles have been studied for many decades and there is now a comprehensive research literature that complements the extensive implementation experience In this book the author presents a clear thorough introduction to the essentials of Petri nets He

explains the core modeling techniques and analysis methods and he illustrates their usefulness with examples and case studies Part I describes how to use Petri nets for modeling all concepts are explained with the help of examples starting with a generic powerful model which is also intuitive and realistic Part II covers the essential analysis methods that are specific to Petri nets introducing techniques used to formulate key properties of system nets and algorithms for proving their validity Part III presents case studies each introducing new concepts properties and analysis techniques required for very different modeling tasks The author offers different paths among the chapters and sections the elementary strand for readers who wish to study only elementary nets the modeling strand for those who wish to study the modeling but not the analysis of systems and finally the elementary models of the modeling strand for those interested in technically simple but challenging examples and case studies The author achieves an excellent balance between consistency comprehensibility and correctness in a book of distinctive design Among its characteristics formal arguments are reduced to a minimum in the main text with many of the theoretical formalisms moved to an appendix the explanations are supported throughout with fully integrated graphical illustrations and each chapter ends with exercises and recommendations for further reading The book is suitable for students of computer science and related subjects such as engineering and for a broad range of researchers and practitioners

Petri Nets in Science and Engineering Raul Campos-Rodriguez, Mildreth Alcaraz-Mejia, 2018-09-19 This book presents a collection of chapters from different areas of science and engineering where Petri Nets have been shown to be a useful tool for the design and modeling of the problems that arise in such fields The areas covered in this book include manufacturing systems authentication and cyber security computer architectures mechanical systems process mining control theory and time analysis The main focus of the chapters was to be illustrative to help the development of intuitive ideas that may guide the reader to adopt Petri Nets in their scientific or engineering work However there are other chapters with deep mathematical basis such as time analysis Whenever possible models graphics and examples illustrate the developed concepts

Handbook of Dynamic System Modeling Paul A. Fishwick, 2007-06-01 The topic of dynamic models tends to be splintered across various disciplines making it difficult to uniformly study the subject Moreover the models have a variety of representations from traditional mathematical notations to diagrammatic and immersive depictions Collecting all of these expressions of dynamic models the Handbook of Dynamic Sy **Application and Theory of Petri Nets 1999** Susanna Donatelli, Jetty Kleijn, 2003-07-31 This book constitutes the refereed proceedings of the 20th International Conference on Application and Theory of Petri Nets ICATPN 99 held in Williamsburg Virginia USA in June 1999 The 21 revised full papers presented were carefully selected from 45 submissions Also included are three invited presentations The book presents state of the art research results on all current aspects of Petri nets as well as advanced applications in a variety of areas

Lectures on Petri Nets II: Applications Wolfgang Reisig, Grzegorz Rozenberg, 1998-11-04 The two volume set originates from the Advanced Course on Petri Nets held in Dagstuhl Germany in September 1996 beyond the lectures given there

additional chapters have been commissioned to give a well balanced presentation of the state of the art in the area Together with its companion volume *Lectures on Petri Nets I Basic Models* this book is the actual reference for the area and addresses professionals students lecturers and researchers who are interested in systems design and would like to learn to use Petri nets familiar with subareas of the theory or its applications and wish to view the whole area interested in learning about recent results presented within a unified framework planning to apply Petri nets in practical situations interested in the relationship of Petri nets to other models of concurrent systems

Design of Embedded Control Systems Marian Andrzej Adamski, Andrei Karatkevich, Marek Wegrzyn, 2006-11-22 A set of original results in the field of high level design of logical control devices and systems is presented in this book These concern different aspects of such important and long term design problems including the following which seem to be the main ones First the behavior of a device under design must be described properly and some adequate formal language should be chosen for that Second effective algorithm should be used for checking the prepared description for correctness for its syntactic and semantic verification at the initial behavior level Third the problem of logic circuit implementation must be solved using some concrete technological base efficient methods of logic synthesis test and verification should be developed for that Fourth the task of the communication between the control device and controlled objects and maybe between different control devices waits for its solution All these problems are hard enough and cannot be successfully solved without efficient methods and algorithms oriented toward computer implementation Some of these are described in this book The languages used for behavior description have been descended usually from two well known abstract models which became classic Petri nets and finite state machines FSMs Anyhow more detailed versions are developed and described in the book which enable to give more complete information concerning specific qualities of the regarded systems For example the model of parallel automaton is presented which unlike the conventional finite automaton can be placed simultaneously into several places called partial As a base for circuit implementation of control algorithms FPGA is accepted in majority of cases

Application and Theory of Petri Nets and Concurrency Victor Khomenko, Olivier H. Roux, 2018-05-29 This book constitutes the proceedings of the 39th International Conference on Application and Theory of Petri Nets and Concurrency PETRI NETS 2018 held in Bratislava Slovakia in June 2018 Petri Nets 2017 is co located with the 19th International Conference on Application of Concurrency to System Design ACSD 2018 The 15 regular and 8 tool papers with 1 invited talk presented together in this volume were carefully reviewed and selected from 33 submissions The focus of the conference is on following topics Petri Nets Synthesis Analysis and Model Checking Languages Semantics and Expressiveness and Tools

Formal Techniques for Networked and Distributed Systems - FORTE 2006 Elie Najm, Jean-Francois Pradat-Peyre, Véronique Vigié Donzeau-Gouge, 2006-09-27 This book constitutes the refereed proceedings of the 26th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems FORTE 2006 held in Paris France in September 2006 The 26 revised full papers and 4

short papers presented together with 3 invited lectures were carefully reviewed and selected from 177 submissions The papers focus on the construction of middleware and services using formalised and verified approaches **Software and System Engineering** Standards Australia (Organization),2006 **Software and System Engineering - High Level Petri Nets** ,2004

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