

Claude Girault
Rüdiger Valk



Petri Nets for Systems Engineering

A Guide to Modeling, Verification,
and Applications



Springer

Petri Nets For Systems Engineering

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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

Petri Nets for Systems Engineering Claude Girault, Rüdiger Valk, 2013-03-14 Formal methods for the specification and verification of hardware and software systems are becoming more and more 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 contains a collection of examples arising from different fields such as flexible manufacturing telecommunication and workflow management systems The book covers the main phases in the life cycle of design and implementation of a system i.e specification model checking techniques for verification analysis of properties code generation and execution of models These techniques and their tool support are discussed in detail including practical issues Amongst others fundamental concepts such as composition abstraction and reusability of models model verification and verification of properties are systematically introduced

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 Theory and the Modeling of Systems James Lyle Peterson, 1981 Software Software Engineering **Applications and Theory of Petri Nets 2004** Jordi Cortadella, Wolfgang Reisig, 2004-06-15 This book constitutes the refereed proceedings of the 25th International Conference on Applications and Theory of Petri Nets ICATPN 2004 held in Bologna Italy in June 2004 The 19 revised full regular papers and 5 revised tool presentation papers presented together with 6 invited papers were carefully reviewed and selected from 62 submissions All current issues on research and development in the area of Petri nets are addressed in particular concurrent systems design and analysis modular systems development formal specification model validation model checking workflow management flow charts networking formal methods in software engineering etc

Socionics Klaus Fischer, Michael Florian, Thomas Malsch, 2005-12-14 This book includes contributions from an interdisciplinary field of research we call Socionics Based on a close cooperation between sociologists and researchers from distributed artificial intelligence and multiagent systems Socionics deals with the exploration of the emergence and dynamics of artificial social systems agent societies as well as hybrid man machine societies The aim is both to develop intelligent computer technologies by picking up theoretical concepts and methods from sociology and to improve sociological models of societies and organizations by using advanced computer technology The 15 articles in this state of the art survey combine selected contributions from sociology and informatics on the modeling construction and study of complex social systems with special regard to the problem of scaling multiagent systems The discussion focuses on four specific research areas multi layer modeling organization and self organization emergence of social structures and paths from an agent centered to a communication centered perspective in modeling multiagent systems **Database Systems for Advanced Applications**

Lei Chen, Chengfei Liu, Qing Liu, Ke Deng, 2009-08-27 DASFAA is an annual international database conference located in the Asia Pacific region which showcases state of the art activities in databases and their applications It provides a forum for technical presentations and discussions among database researchers developers and users from academia business and industry DASFAA 2009 the 14th in the series was held during April 20-23 2009 in Brisbane Australia In this year we carefully selected six workshops each focusing on specific research issues that contribute to the main themes of the DASFAA conference This volume contains the final versions of papers accepted for these six workshops that were held in conjunction with DASFAA 2009 They are First International Workshop on Benchmarking of XML and Semantic Web Applications BenchmarX 2009 Second International Workshop on Managing Data Quality in Collaborative Information Systems MCIS 2009 First

International Workshop on Data and Process Provenance WDPP 2009 First International Workshop on Privacy Preserving Data Analysis PPDA 2009 First International Workshop on Mobile Business Collaboration MBC2009 DASFAA 2009 PhD Workshop All the workshops were selected via a public call for proposals process The workshop organizers put a tremendous amount of effort into soliciting and selecting papers with a balance of high quality new ideas and new applications We asked all workshops to follow a rigid paper selection process including the procedure to ensure that any Program Committee members are excluded from the paper review process of any paper they are involved with A requirement about the overall paper acceptance rate of no more than 50% was also imposed on all the workshops

Applications and Theory of Petri Nets Johan Lilius, Wojciech Penczek, 2010-08-11 This book constitutes the refereed proceedings of the 31st International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency PETRI NETS 2010 held in Braga Portugal in June 2010 The 16 revised papers classified as theory papers 10 application papers 2 and tool papers 4 were carefully reviewed and selected from 50 submissions All current issues on research and development in the area of Petri nets and related models of concurrent systems are addressed novel tools as well as substantial enhancements to existing tools are presented

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 Systems

Advanced Information Systems Engineering Klaus R. Dittrich, Andreas Geppert, Moira C. Norrie, 2003-05-15 Since the late 1980s the CAiSE conferences have provided a forum for the presentation and exchange of research results and practical experiences within the field of Information Systems Engineering CAiSE 2001 was the 13th conference in this series and was held from 4th to 8th June 2001 in the resort of Interlaken located near the three famous Swiss mountains the Eiger Mönch and Jungfrau The first two days consisted of pre-conference workshops and tutorials The workshop themes included requirements engineering evaluation of modeling methods data integration over the Web agent oriented information systems and the design and management of data warehouses Continuing the tradition of recent CAiSE conferences there was also a doctoral consortium The pre-conference tutorials were on the themes of e-business models and XML application development The main conference program included three invited speakers two tutorials and a panel discussion in addition to presentations of the papers in these proceedings We also included a special practice and experience session to give presenters an opportunity to report on and discuss experiences and investigations on the use of methods and technologies in practice We extend our thanks to the members of the program committee and all other referees without whom such conferences would not be possible The program committee whose members came from 20 different countries selected 27 high quality research papers and 3 experience reports from a total of 97 submissions The topics of these papers span the wide range of

topics relevant to information systems engineering from requirements and design through to implementation and operation of complex and dynamic systems Seminal Contributions to Information Systems Engineering Janis Bubenko, John Krogstie, Oscar Pastor, Barbara Pernici, Colette Rolland, Arne Sølvberg, 2013-06-13 In 2013 the International Conference on Advance Information Systems Engineering CAiSE turns 25 Initially launched in 1989 for all these years the conference has provided a broad forum for researchers working in the area of Information Systems Engineering To reflect on the work done so far and to examine prospects for future work the CAiSE Steering Committee decided to present a selection of seminal papers published for the conference during these years and to ask their authors all prominent researchers in the field to comment on their work and how it has developed over the years The scope of the papers selected covers a broad range of topics related to modeling and designing information systems collecting and managing requirements and with special attention to how information systems are engineered towards their final development and deployment as software components With this approach the book provides not only a historical analysis on how information systems engineering evolved over the years but also a fascinating social network analysis of the research community Additionally many inspiring ideas for future research and new perspectives in this area are sparked by the intriguing comments of the renowned authors

Theory and Applications of Models of Computation Jin-Yi Cai, 2007-05-09 This book constitutes the refereed proceedings of the 4th International Conference on Theory and Applications of Models of Computation TAMC 2007 held in Shanghai China in May 2007 It addresses all major areas in computer science mathematics especially logic and the physical sciences particularly with regard to computation and computability theory The papers particularly focus on algorithms complexity and computability theory *Certification and Security in Health-Related Web Applications: Concepts and Solutions*

Chryssanthou, Anargyros, Apostolakis, Ioannis, Varlamis, Iraklis, 2010-09-30 This book aims to bridge the worlds of healthcare and information technology increase the security awareness of professionals students and users and highlight the recent advances in certification and security in health related Web applications Provided by publisher **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 Université Pierre 1 Marie Curie as a part of MeFoSyLoMa gathering research teams from numerous universities in Ile de France CNAM

ENS de Cachan Université Evry Val d'Essonne Université Paris Dauphine Université Paris 12 Université 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

Integrated Systems Engineering G. Johannsen, 2014-05-23 A key solution for present and future technological problems is an integration systems approach The challenging cross discipline of integrated systems engineering is perhaps more easily accepted and implemented in the organizational structures of industries than in academia The opportunity for both sides leading researchers and industrial practitioners in this field to exchange ideas concepts and solutions has been provided at the IFAC symposia on integrated systems engineering This postprint volume contains all those papers which were presented at the symposia including the three plenary papers and the papers of the case study session as well as the summaries of the three discussion sessions

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