



Wolfgang Reisig

Understanding Petri Nets

Modeling Techniques,
Analysis Methods, Case Studies

Understanding Petri Nets Modeling Techniques Analysis Methods Case Studies

**Leonard Barolli, Flora Amato, Francesco
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Takizawa**

Understanding Petri Nets Modeling Techniques Analysis Methods Case Studies:

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

Understanding Petri Nets Wolfgang Reisig, **Application and Theory of Petri Nets and Concurrency** Luis Gomes, Robert Lorenz, 2023-05-27 This book constitutes the proceedings of the 44th International Conference on Application and Theory of Petri Nets and Concurrency PETRI NETS 2023 which took place in Lisbon Portugal in June 2023 The 21 full papers included in this book were carefully reviewed and selected from 47 submissions They were organized in topical sections as follows Process mining semantics tools verification timed models model transformation The book also includes two invited talks in full paper length

Proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS-RELCOMEX. June 30 – July 4, 2014, Brunów, Poland Wojciech Zamojski, Jacek Mazurkiewicz, Jarosław Sugier, Tomasz Walkowiak, Janusz Kacprzyk, 2014-05-16 DepCoS RELCOMEX is an annual series of conferences organized by Wrocław University of Technology to promote a comprehensive approach to evaluation of system performability which is now commonly called dependability In contrast to classic analyses which were concentrated on reliability of technical resources and structures built from them dependability is based on multi disciplinary approach to

theory technology and maintenance of a system considered to be a multifaceted amalgamation of technical information organization software and human users administrators supervisors etc resources Diversity of processes being realized data processing system management system monitoring etc their concurrency and their reliance on in system intelligence often severely impedes construction of strict mathematical models and calls for application of intelligent and soft computing methods This book presents the proceedings of the Ninth International Conference on Dependability and Complex Systems DepCoS RELCOMEX which took place in Brun w Palace Poland from 30th June to 4th July 2014 The articles selected for this volume illustrate the variety of topics that must be included in system dependability analysis tools methodologies and standards for modelling design and simulation of the systems security and confidentiality in information processing specific issues of heterogeneous today often wireless computer networks or management of transportation networks *Web, Artificial Intelligence and Network Applications* Leonard Barolli,Flora Amato,Francesco Moscato,Tomoya Enokido,Makoto Takizawa,2020-03-30 This proceedings book presents the latest research findings and theoretical and practical perspectives on innovative methods and development techniques related to the emerging areas of Web computing intelligent systems and Internet computing The Web has become an important source of information and techniques and methodologies that extract quality information are of paramount importance for many Web and Internet applications Data mining and knowledge discovery play a key role in many of today s major Web applications such as e commerce and computer security Moreover Web services provide a new platform for enabling service oriented systems The emergence of large scale distributed computing paradigms such as cloud computing and mobile computing systems has opened many opportunities for collaboration services which are at the core of any information system Artificial intelligence AI is an area of computer science that builds intelligent systems and algorithms that work and react like humans AI techniques and computational intelligence are powerful tools for learning adaptation reasoning and planning and they have the potential to become enabling technologies for future intelligent networks Research in the field of intelligent systems robotics neuroscience artificial intelligence and cognitive sciences is vital for the future development and innovation of Web and Internet applications Chapter An Event Driven Multi Agent System for Scalable Traffic Optimization is available open access under a Creative Commons Attribution 4 0 International License via link [springer.com](https://www.springer.com) **European Robotics Forum 2024** Cristian Secchi,Lorenzo Marconi,2024-12-31 This book collects the scientific contributions presented at the European Robotics Forum ERF 2024 that is the reference event for the EuRobotics association In the months leading up to the forum a direct call was launched to the many industrial players who are members of EuRobotics and who were asked to specify particularly important areas of development according to their roadmap The outcome of this survey and the topics of the Workshops held during the forum have been used to calibrate an industry driven scientific program where research objectives meet industrial needs The contributions collected in the book cover a wide spectrum of robotics research encompassing mechatronics

algorithms Artificial Intelligence Human Robot Collaboration and many robotic applications Language and Automata Theory and Applications Frank Drewes, Carlos Martín-Vide, Bianca Truthe, 2017-02-14 This book constitutes the refereed proceedings of the 11th International Conference on Language and Automata Theory and Applications LATA 2017 held in Ume Sweden in March 2017 The 31 revised full papers presented together with 4 invited talks were carefully reviewed and selected from 73 submissions The papers cover the following topics algorithmic learning and semantics automata and logics combinatorics on words compression and pattern matching complexity finite automata grammars languages and parsing graphs and Petri Nets non classical automata and pushdown automata and systems **Sustainable Manufacturing**

Systems: An Energy Perspective Lin Li, MengChu Zhou, 2022-11-03 Sustainable Manufacturing Systems Learn more about energy efficiency in traditional and advanced manufacturing settings with this leading and authoritative resource Sustainable Manufacturing Systems An Energy Perspective delivers a comprehensive analysis of energy efficiency in sustainable manufacturing The book presents manufacturing modeling methods and energy efficiency evaluation and improvement methods for different manufacturing systems It allows industry professionals to understand the methodologies and techniques being embraced around the world that lead to advanced energy management The book offers readers a comprehensive and systematic theoretical foundation for novel manufacturing system modeling analysis and control It concludes with a summary of the insights and applications contained within and a discussion of future research issues that have yet to be grappled with Sustainable Manufacturing Systems answers the questions that energy customers managers decision makers and researchers have been asking about sustainable manufacturing The book s release coincides with recent and profound advances in smart grid applications and will serve as a practical tool to assist industrial engineers in furthering the green revolution Readers will also benefit from A thorough introduction to energy efficiency in manufacturing systems including the current state of research and research methodologies An exploration of the development of manufacturing methodologies including mathematical modeling for manufacturing systems and energy efficiency characterization in manufacturing systems An analysis of the applications of various methodologies including electricity demand response for manufacturing systems and energy control and optimization for manufacturing systems utilizing combined heat and power systems A discussion of energy efficiency in advanced manufacturing systems like stereolithography additive manufacturing and cellulosic biofuel manufacturing systems Perfect for researchers undergraduate students and graduate students in engineering disciplines especially for those majoring in industrial mechanical electrical and environmental engineering Sustainable Manufacturing Systems will also earn a place in the libraries of management and business students interested in manufacturing system cost performance and energy management Machine Learning for Dynamic Software Analysis: Potentials and Limits Amel Bennaceur, Reiner Hähnle, Karl Meinke, 2018-07-20 Machine learning of software artefacts is an emerging area of interaction between the machine learning and software analysis communities Increased productivity in

software engineering relies on the creation of new adaptive scalable tools that can analyse large and continuously changing software systems These require new software analysis techniques based on machine learning such as learning based software testing invariant generation or code synthesis Machine learning is a powerful paradigm that provides novel approaches to automating the generation of models and other essential software artifacts This volume originates from a Dagstuhl Seminar entitled Machine Learning for Dynamic Software Analysis Potentials and Limits held in April 2016 The seminar focused on fostering a spirit of collaboration in order to share insights and to expand and strengthen the cross fertilisation between the machine learning and software analysis communities The book provides an overview of the machine learning techniques that can be used for software analysis and presents example applications of their use Besides an introductory chapter the book is structured into three parts testing and learning extension of automata learning and integrative approaches Security and Privacy in IoMT Deepak Gupta, Anuj Kumar Singh, Yu-Dong (Eugene)

Zhang, 2025-10-14 This book explores Internet of Medical Things IoMT security and privacy in electronic healthcare addressing vulnerabilities in medical devices that expose patient data to cyber attacks It covers IoMT security challenges potential attacks and solutions considering resource constraints network architecture and communication protocols IoMT is revolutionizing the medical sector by providing personalized and targeted treatments and by facilitating seamless communication of medical data IoMT devices are more trustworthy in monitoring and tracking due to higher accuracy levels which also minimize human errors and inaccurate reporting While the merits of IoMT devices are clear they also pose severe privacy and security risks Medical systems acquire process and perform decision making based on this sensitive health information Cyber attackers who exploit the flaws and weaknesses in these IoMT devices might well be able to penetrate the hospital network and gain unauthorized access to private patient data Attacks on these IoMT devices also have the potential to endanger the patients lives and cause serious physical harm In addition to outlining viable solutions that take into account constrained resources at IoMT end devices hybrid network architecture application characteristics and communication protocols the book covers the core concepts of IoMT security and privacy It describes both theoretical and practical aspects for those working in security in the IoMT emphasizing the most significant potential IoT security issues and challenges

Carl Adam Petri Einar Smith, 2015-10-30 The book presents the life and works of one of Germany's most famous computer scientists Carl Adam Petri It is written in a vivid and entertaining manner providing an in depth discussion of the background behind Petri's best known contribution to computer science the Petri net In this way the book can be read as a first introduction to nets but it also covers the theoretical physical and philosophical foundations behind nets thus facilitating a comprehensive understanding of the wider range of Petri's works The book is intended for readers with a previous knowledge in computer science as well as for interested non professionals who want to get to know a remarkable personality of contemporary science *Model Checking, Synthesis, and Learning* Ernst-Rüdiger Olderog, Bernhard Steffen, Wang

Yi,2021-12-02 This Festschrift dedicated to Bengt Jonsson on the occasion of his 60th birthday contains papers written by many of his friends and collaborators Bengt has made major contributions covering a wide range of topics including verification and learning His works on verification in finite state systems learning testing probabilistic systems timed systems and distributed systems reflect both the diversity and the depth of his research Besides being an excellent scientist Bengt is also a leader who has greatly influenced the careers of both his students and his colleagues His main focus throughout his career has been in the area of formal methods and the research papers dedicated to him in this volume address related topics particularly related to model checking temporal logic and automata learning

Tools and Methods of Program Analysis

Vladimir Itsykson,Andre Scedrov,Victor Zakharov,2017-12-29 This book constitutes the refereed proceedings of the 4th International Conference on Tools and Methods for Program Analysis TMPA 2017 Moscow Russia March 3 4 2017 The 12 revised full papers and 5 revised short papers presented together with three abstracts of keynote talks were carefully reviewed and selected from 51 submissions The papers deal with topics such as software test automation static program analysis verification dynamic methods of program analysis testing and analysis of parallel and distributed systems testing and analysis of high load and high availability systems analysis and verification of hardware and software systems methods of building quality software tools for software analysis testing and verification

Computational Interaction

Antti Oulasvirta,Per Ola Kristensson,Xiaojun Bi,Andrew Howes,2018-01-10 This book presents computational interaction as an approach to explaining and enhancing the interaction between humans and information technology Computational interaction applies abstraction automation and analysis to inform our understanding of the structure of interaction and also to inform the design of the software that drives new and exciting human computer interfaces The methods of computational interaction allow for example designers to identify user interfaces that are optimal against some objective criteria They also allow software engineers to build interactive systems that adapt their behaviour to better suit individual capacities and preferences Embedded in an iterative design process computational interaction has the potential to complement human strengths and provide methods for generating inspiring and elegant designs Computational interaction does not exclude the messy and complicated behaviour of humans rather it embraces it by for example using models that are sensitive to uncertainty and that capture subtle variations between individual users It also promotes the idea that there are many aspects of interaction that can be augmented by algorithms This book introduces computational interaction design to the reader by exploring a wide range of computational interaction techniques strategies and methods It explains how techniques such as optimisation economic modelling machine learning control theory formal methods cognitive models and statistical language processing can be used to model interaction and design more expressive efficient and versatile interaction

Information

Systems Security and Privacy Paolo Mori,Steven Furnell,Olivier Camp,2019-07-04 This book constitutes the revised selected papers of the 4th International Conference on Information Systems Security and Privacy ICISPP 2018 held in

Funchal Madeira Portugal in January 2018 The 15 full papers presented were carefully reviewed and selected from a total of 71 submissions They are dealing with topics such as data and software security privacy and confidentiality mobile systems security biometric authentication information systems security and privacy authentication privacy and security models data mining and knowledge discovery phishing security architecture and design analysis security testing vulnerability analysis and countermeasures web applications and services

Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles Tiziana Margaria, Bernhard Steffen, 2020-10-26 The three volume set LNCS 12476 12478 constitutes the refereed proceedings of the 9th International Symposium on Leveraging Applications of Formal Methods ISoLA 2020 which was planned to take place during October 20 30 2020 on Rhodes Greece The event itself was postponed to 2021 due to the COVID 19 pandemic The papers presented were carefully reviewed and selected for inclusion in the proceedings Each volume focusses on an individual topic with topical section headings within the volume Part I Verification Principles Modularity and De Composition in Verification X by Construction Correctness meets Probability 30 Years of Statistical Model Checking Verification and Validation of Concurrent and Distributed Systems Part II Engineering Principles Automating Software Re Engineering Rigorous Engineering of Collective Adaptive Systems Part III Applications Reliable Smart Contracts State of the art Applications Challenges and Future Directions Automated Verification of Embedded Control Software Formal methods for DIStributed COmputing in future RAILway systems

Information Systems: Education, Applications, Research Stanisław Wrycza, 2014-09-19 This book constitutes the proceedings of the 7th Euro Symposium on Systems Analysis and Design SIGSAND PLAIS 2014 held in Gdańsk Poland in September 2014 The objective of this symposium is to promote and develop high quality research on all issues related to systems analysis and design SAND It provides a forum for SAND researchers and practitioners in Europe and beyond to interact collaborate and develop their field The 7 papers were carefully reviewed and selected with an acceptance rate of 40% cover topics in information systems evaluation and education and they reflect current trends in systems analysis and design

Domain Science and Engineering Dines Bjørner, 2021-11-08 In this book the author explains domain engineering and the underlying science and he then shows how we can derive requirements prescriptions for computing systems from domain descriptions A further motivation is to present domain descriptions requirements prescriptions and software design specifications as mathematical quantities The author's maxim is that before software can be designed we must understand its requirements and before requirements can be prescribed we must analyse and describe the domain for which the software is intended He does this by focusing on what it takes to analyse and describe domains By a domain we understand a rationally describable discrete dynamics segment of human activity of natural and man made artefacts examples include road rail and air transport container terminal ports manufacturing trade healthcare and urban planning The book addresses issues of seemingly large systems not small algorithms and it emphasizes descriptions as formal mathematical quantities This is the first thorough

monograph treatment of the new software engineering phase of software development one that precedes requirements engineering It emphasizes a methodological approach by treating in depth analysis and description principles techniques and tools It does this by basing its domain modeling on fundamental philosophical principles a view that is new for a computer science monograph The book will be of value to computer scientists engaged with formal specifications of software The author reveals this as a field of interesting problems most chapters include pointers to further study and exercises drawn from practical engineering and science challenges The text is supported by a primer to the formal specification language RSL and extensive indexes Application and Theory of Petri Nets and Concurrency Raymond Devillers,Antti

Valmari,2015-06-03 This book constitutes the proceedings of the 36th International Conference on Application and Theory of Petri Nets and Concurrency PETRI NETS 2015 held in Brussels Belgium in June 2015 The 12 regular papers and 2 tool papers presented in this volume were carefully reviewed and selected from 34 submissions In addition the book contains 3 invited talks in full paper length The papers cover various topics in the field of Petri nets and related models of concurrency

FM 2014: Formal Methods Cliff Jones,Pekka Pihlajasaari,Jun Sun,2014-04-18 This book constitutes the refereed proceedings of the 19th International Symposium on Formal Methods FM 2014 held in Singapore May 2014 The 45 papers presented together with 3 invited talks were carefully reviewed and selected from 150 submissions The focus of the papers is on the following topics Interdisciplinary Formal Methods Practical Applications of Formal Methods in Industrial and Research Settings Experimental Validation of Tools and Methods as well as Construction and Evolution of Formal Methods Tools

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