

# Performance Analysis of Communication Systems

Modeling with Non-Markovian  
Stochastic Petri Nets



REINHARD GERMAN

# Performance Analysis Of Communication Systems Modeling With Non Markovian Stochastic Petri Nets

**Simonetta Balsamo, Andrea  
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## **Performance Analysis Of Communication Systems Modeling With Non Markovian Stochastic Petri Nets:**

*Performance Analysis of Communication Systems* Reinhard German, 2000-06-08 Algorithm 396 A 4 6 General Execution Policies 398 A 5 Transient Analysis of DSPNs 401 A 5 1 Solution Algorithm for Periodic DSPNs 401 A 5 2 Solution Algorithm for Non periodic DSPNs 403 List of Abbreviations 407 Glossary of Notation 411 References 419 Index 433 **Lectures on**

**Formal Methods and Performance Analysis** Ed Brinksma, Holger Hermanns, Joost-Pieter Katoen, 2003-06-29 Traditionally models and methods for the analysis of the functional correctness of reactive systems and those for the analysis of their performance and pendability aspects have been studied by different research communities This has resulted in the development of successful but distinct and largely unrelated modeling and analysis techniques for both domains In many modern systems however the difference between their functional features and their performance properties has become blurred as relevant functionalities become inextricably linked to performance aspects e g isochronous data transfer for live video transmission During the last decade this trend has motivated an increased interest in combining insights and results from the field of formal methods traditionally cused on functionality with techniques for performance modeling and analysis Prominent examples of this cross fertilization are extensions of process algebra and Petri nets that allow for the automatic generation of performance models the use of formal proof techniques to assess the correctness of randomized gorithms and extensions of model checking techniques to analyze performance requirements automatically We believe that these developments mark the beginning of a new paradigm for the modeling and analysis of systems in which qualitative and quantitative aspects are studied from an integrated perspective We are convinced that the further work towards the realization of this goal will be a growing source of inspiration and progress for both communities **Stochastic Discrete**

**Event Systems** Armin Zimmermann, 2008-01-12 Stochastic discrete event systems SDES capture the randomness in choices due to activity delays and the probabilities of decisions This book delivers a comprehensive overview on modeling with a quantitative evaluation of SDES It presents an abstract model class for SDES as a pivotal unifying result and details important model classes The book also includes nontrivial examples to explain real world applications of SDES

**Computer Performance Evaluation. Modelling Techniques and Tools** Boudewijn R. Haverkort, Henrik C. Bohnenkamp, Connie U. Smith, 2003-06-29 This book constitutes the refereed proceedings of the 11th International Conference on Modelling Tools and Techniques for Computer Communication System Performance Evaluation TOOLS 2000 held in Schaumburg IL USA in March 2000 The 21 revised full papers presented were carefully reviewed and selected from a total of 49 submissions Also included are 15 tool descriptions and one invited paper The papers are organized in topical sections on queueing network models optimization in mobile networks stochastic Petri nets simulation formal methods and performance evaluation and measurement tools and applications Performance Evaluation of Complex Systems:

Techniques and Tools Maria Carla Calzarossa, Salvatore Tucci, 2003-08-02 This book presents the tutorial lectures given by

leading experts in the area at the IFIP WG 7.3 International Symposium on Computer Modeling Measurement and Evaluation Performance 2002 held in Rome Italy in September 2002 The survey papers presented are devoted to theoretical and methodological advances in performance and reliability evaluation as well as new perspectives in the major application fields Modeling and verification issues solution methods workload characterization and benchmarking are addressed from the methodological point of view Among the applications dealt with are hardware and software architectures wired and wireless networks grid environments Web services and real time voice and video processing This book is intended to serve as a state of the art survey and reference for students scientists and engineers active in the area of performance and reliability evaluation

*Formal Methods for Performance Evaluation* Marco Bernardo, Jane Hillston, 2007-06-06 This book presents a set of 11 papers accompanying the lectures of leading researchers given at the 7th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2007 held in Bertinoro Italy in May June 2007 SFM 2007 was devoted to formal techniques for performance evaluation and covered several aspects of the field

*Petri Nets* Pawel Pawlewski, 2012-08-29 Petri Nets were introduced in the doctoral dissertation by K A Petri titled Kommunikation mit Automaten and published in 1962 by University of Bonn Petri Nets are graphical the intuitive graphical modeling language and mathematical advanced formal analysis method tool The concurrence of performed actions is the natural phenomenon due to which Petri Nets are perceived as mathematical tool for modeling concurrent systems The main idea of this theory was modified by many researchers according to their needs owing to the unusual flexibility of this theory The present monograph focuses on Petri Nets applications in two main areas manufacturing section 1 and computer science section 2 These two areas have still huge influence on our lives and our world The theory of Petri Nets is still developing some directions of investigations are presented in section 3 And at the end there is section 4 including some infesting facts concerning application of Petri Nets in the public area the analysis and control of public bicycle sharing systems The monograph shows the results of research works performed with use of Petri Nets in science centers all over the world

**Multi-Objective Optimization using Evolutionary Algorithms** Kalyanmoy Deb, 2001-07-05 Evolutionary algorithms are relatively new but very powerful techniques used to find solutions to many real world search and optimization problems Many of these problems have multiple objectives which leads to the need to obtain a set of optimal solutions known as effective solutions It has been found that using evolutionary algorithms is a highly effective way of finding multiple effective solutions in a single simulation run Comprehensive coverage of this growing area of research Carefully introduces each algorithm with examples and in depth discussion Includes many applications to real world problems including engineering design and scheduling Includes discussion of advanced topics and future research Can be used as a course text or for self study Accessible to those with limited knowledge of classical multi objective optimization and evolutionary algorithms The integrated presentation of theory algorithms and examples will benefit those working and researching in the areas of

optimization optimal design and evolutionary computing This text provides an excellent introduction to the use of evolutionary algorithms in multi objective optimization allowing use as a graduate course text or for self study Probability and Statistics with Reliability, Queuing, and Computer Science Applications Kishor S. Trivedi, 2016-07-11 An accessible introduction to probability stochastic processes and statistics for computer science and engineering applications Second edition now also available in Paperback This updated and revised edition of the popular classic first edition relates fundamental concepts in probability and statistics to the computer sciences and engineering The author uses Markov chains and other statistical tools to illustrate processes in reliability of computer systems and networks fault tolerance and performance This edition features an entirely new section on stochastic Petri nets as well as new sections on system availability modeling wireless system modeling numerical solution techniques for Markov chains and software reliability modeling among other subjects Extensive revisions take new developments in solution techniques and applications into account and bring this work totally up to date It includes more than 200 worked examples and self study exercises for each section Probability and Statistics with Reliability Queuing and Computer Science Applications Second Edition offers a comprehensive introduction to probability stochastic processes and statistics for students of computer science electrical and computer engineering and applied mathematics Its wealth of practical examples and up to date information makes it an excellent resource for practitioners as well An Instructor s Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department **Approaches in Integrative Bioinformatics** Ming Chen, Ralf Hofestädt, 2014-01-18 Approaches in Integrative Bioinformatics provides a basic introduction to biological information systems as well as guidance for the computational analysis of systems biology This book also covers a range of issues and methods that reveal the multitude of omics data integration types and the relevance that integrative bioinformatics has today Topics include biological data integration and manipulation modeling and simulation of metabolic networks transcriptomics and phenomics and virtual cell approaches as well as a number of applications of network biology It helps to illustrate the value of integrative bioinformatics approaches to the life sciences This book is intended for researchers and graduate students in the field of Bioinformatics Professor Ming Chen is the Director of the Bioinformatics Laboratory at the College of Life Sciences Zhejiang University Hangzhou China Professor Ralf Hofest dt is the Chair of the Department of Bioinformatics and Medical Informatics Bielefeld University Germany **Systems Modeling: Methodologies and Tools** Antonio Puliafito, Kishor S. Trivedi, 2018-10-16 This book covers ideas methods algorithms and tools for the in depth study of the performance and reliability of dependable fault tolerant systems The chapters identify the current challenges that designers and practitioners must confront to ensure the reliability availability and performance of systems with special focus on their dynamic behaviors and dependencies Topics include network calculus workload and scheduling simulation sensitivity analysis and applications queuing networks analysis clouds federations and big data and tools This collection of recent

research exposes system researchers performance analysts and practitioners to a spectrum of issues so that they can address these challenges in their work      **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      *Dependability Engineering* Fausto Pedro García Márquez,Mayorkinos Papaelias,2018-06-06

The new technology and system communication advances are being employed in any system being more complex The system dependability considers the technical complexity size and interdependency of the system The stochastic characteristic together with the complexity of the systems as dependability requires to be under control the Reliability Availability Maintainability and Safety RAMS The dependability contemplates therefore the faults failures downtimes stoppages worker errors etc Dependability also refers to emergent properties i e properties generated indirectly from other systems by the system analyzed Dependability understood as general description of system performance requires advanced analytics that are considered in this book Dependability management and engineering are covered with case studies and best practices The diversity of the issues will be covered from algorithms mathematical models and software engineering by design methodologies and technical or practical solutions This book intends to provide the reader with a comprehensive overview of the current state of the art case studies hardware and software solutions analytics and data science in dependability engineering      Hybrid Systems: Computation and Control Alberto Bemporad,Antonio Bicchi,Giorgio C Buttazzo,2007-03-20

This book constitutes the refereed proceedings of the 10th International Conference on Hybrid Systems Computation and Control HSCC 2007 held in Pisa Italy in April 2007 The 44 revised full papers and 39 revised short papers presented together with the abstracts of 3 keynote talks were carefully reviewed and selected from 167 submissions Among the topics addressed are models of heterogeneous systems computability and complexity issues real time computing and control embedded and resource aware control control and estimation over wireless networks tools for analysis verification control and design programming languages support and implementation applications including automotive communication networks avionics energy systems transportation networks biology and other sciences manufacturing and robotics      **Recent Advances In**

**Stochastic Operations Research** Shunji Osaki,Tadashi Dohi,Katsushige Sawaki,2007-01-18 Operations research uses quantitative models to analyze and predict the behavior of systems and to provide information for decision makers Two key concepts in operations research are optimization and uncertainty This volume consists of a collection of peer reviewed papers from the International Workshop on Recent Advances in Stochastic Operations Research RASOR 2005 August 25 26

2005 Canmore Alberta Canada In particular the book focusses on models in stochastic operations research including queueing models inventory models financial engineering models reliability models and simulations models *New Frontiers in Quantitative Methods in Informatics* Simonetta Balsamo,Andrea Marin,Enrico Vicario,2018-05-23 This book constitutes the refereed proceedings of the 7th Workshop on New Frontiers in Quantitative Methods in Informatics InfQ 2017 held in Venice Italy in December 2017 The 11 revised full papers and the one revised short paper presented were carefully reviewed and selected from 22 submissions The papers are organized in topical sections on networking and mobile applications applications of quantitative modeling big data processing and IoT theory methods and tools for quantitative analysis

**Measurement, Modelling and Evaluation of Dependable Computer and Communication Systems** Anne Remke,Boudewijn R. Haverkort,2016-03-24 This book constitutes the proceedings of the 18th International GI ITG Conference on Measurement Modelling and Evaluation of Computing Systems and Dependability and Fault Tolerance MMB DFT 2016 held in Münster Germany in April 2016 The 12 full papers and 3 short papers included in this volume were carefully reviewed and selected from 23 submissions The papers deal with the fields of performance evaluation dependability and fault tolerance of computer and communication systems A relatively new topic of smart grids is also covered

*Performance Evaluation of Computer and Communication Systems* Lorenzo Donatiello,Randolph Nelson,1993-09-15 This volume contains the complete set of tutorial papers presented at the 16th IFIP International Federation for Information Processing Working Group 7.3 International Symposium on Computer Performance Modelling Measurement and Evaluation and a number of tutorial papers presented at the 1993 ACM Association for Computing Machinery Special Interest Group METRICS Conference on Measurement and Modeling of Computer Systems The principal goal of the volume is to present an overview of recent results in the field of modeling and performance evaluation of computer and communication systems The wide diversity of applications and methodologies included in the tutorials attests to the breadth and richness of current research in the area of performance modeling The tutorials may serve to introduce a reader to an unfamiliar research area to unify material already known or simply to illustrate the diversity of research in the field The extensive bibliographies guide readers to additional sources for further reading

**Optimization Methods Applied to Power Systems** Francisco G. Montoya,Raúl Baños Navarro,2019-07-26 This book presents an interesting sample of the latest advances in optimization techniques applied to electrical power engineering It covers a variety of topics from various fields ranging from classical optimization such as Linear and Nonlinear Programming and Integer and Mixed Integer Programming to the most modern methods based on bio inspired metaheuristics The featured papers invite readers to delve further into emerging optimization techniques and their real application to case studies such as conventional and renewable energy generation distributed generation transport and distribution of electrical energy electrical machines and power electronics network optimization intelligent systems advances in electric mobility etc

**Reliability and Availability Engineering** Kishor S. Trivedi,Andrea

Bobbio,2017-08-03 Do you need to know what technique to use to evaluate the reliability of an engineered system This self contained guide provides comprehensive coverage of all the analytical and modeling techniques currently in use from classical non state and state space approaches to newer and more advanced methods such as binary decision diagrams dynamic fault trees Bayesian belief networks stochastic Petri nets non homogeneous Markov chains semi Markov processes and phase type expansions Readers will quickly understand the relative pros and cons of each technique as well as how to combine different models together to address complex real world modeling scenarios Numerous examples case studies and problems provided throughout help readers put knowledge into practice and a solutions manual and Powerpoint slides for instructors accompany the book online This is the ideal self study guide for students researchers and practitioners in engineering and computer science

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