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Quantitative Methods in Parallel Systems



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Quantitative Models In Parallel Systems

Alexander Ost



Quantitative Models In Parallel Systems:

Quantitative Methods in Parallel Systems Francois Baccelli, Alain Jean-Marie, Isi Mitrani, 2013-11-11 It is widely recognized that the complexity of parallel and distributed systems is such that proper tools must be employed during their design stage in order to achieve the quantitative goals for which they are intended This volume collects recent research results obtained within the Basic Research Action Qmips which bears on the quantitative analysis of parallel and distributed architectures Part 1 is devoted to research on the usage of general formalisms stemming from theoretical computer science in quantitative performance modeling of parallel systems It contains research papers on process algebras on Petri nets and on queueing networks The contributions in Part 2 are concerned with solution techniques This part is expected to allow the reader to identify among the general formalisms of Part I those that are amenable to an efficient mathematical treatment in the perspective of quantitative information The common theme of Part 3 is the application of the analytical results of Part 2 to the performance evaluation and optimization of parallel and distributed systems Part 1 Stochastic Process Algebras are used by N Gotz H Hermanns U Herzog V Mertsiotakis and M Rettelbach as a novel approach for the structured design and analysis of both the functional behaviour and performability i e performance and dependability characteristics of parallel and distributed systems This is achieved by integrating stochastic modeling and analysis into the powerful and well investigated formal description techniques of process algebras *Wireless and Satellite Systems* Qihui Wu, Kanglian Zhao, Xiaojin Ding, 2021-02-27 This two volume set LNICST 357 358 constitutes the post conference proceedings of the 11th EAI International Conference on Wireless and Satellite Services WiSATS 2020 held in Nanjing China in September 2020 The 91 full papers and workshop papers were carefully reviewed and selected from 200 submissions Part I LNICST 357 details original research and results of wireless and satellite technology for a smarter global communication architecture The theme of WiSATS 2020 is Intelligent Wireless and Satellite Communications for Beyond 5G Part II LNICST 358 presents 6 workshop papers High Speed Space Communication and Space Information Networks HSSCSIN Integrated Space and Onboard Networks ISON Intelligent Satellite Operations Managements and Applications ISOMA Intelligent Satellites in Future Space Networked System ISFSNS Satellite Communications Networking and Applications SCNA Satellite Internet of Things Trusted Data Sharing Secure Communication SIOTTDSSC **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 dependability 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 used 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 algorithms 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.

Tools and Algorithms for the Construction and Analysis of Systems Tiziana Margaria, Wang Yi, 2003-06-29 This book constitutes the refereed proceedings of the 7th International Conference on Tools and Algorithms for the Construction and Analysis of Systems TACAS 2001. The 36 revised full papers presented together with an invited contribution were carefully reviewed and selected from a total of 125 submissions. The papers are organized in sections on symbolic verification infinite state systems deduction and abstraction application of model checking techniques timed and probabilistic systems hardware design and verification software verification testing techniques and tools implementation techniques semantics and compositional verification logics and model checking and ETAPS tool demonstration.

StarBriefs Plus Andre Heck, 2004-04-30 With about 200 000 entries StarBriefs Plus represents the most comprehensive and accurately validated collection of abbreviations acronyms contractions and symbols within astronomy related space sciences and other related fields. As such this invaluable reference source and its companion volume StarGuides Plus should be on the reference shelf of every library organization or individual with any interest in these areas. Besides astronomy and associated space sciences related fields such as aeronautics aeronomy astronautics atmospheric sciences chemistry communications computer sciences data processing education electronics engineering energetics environment geodesy geophysics information handling management mathematics meteorology optics physics remote sensing and so on are also covered when justified. Terms in common use and or of general interest have also been included where appropriate.

Interactive Markov Chains Holger Hermanns, 2003-08-02 Markov Chains are widely used as stochastic models to study a broad spectrum of system performance and dependability characteristics. This monograph is devoted to compositional specification and analysis of Markov chains. Based on principles known from process algebra the author systematically develops an algebra of interactive Markov chains. By presenting a number of distinguishing results of both theoretical and practical nature the author substantiates the claim that interactive Markov chains are more than just another formalism. Among other an algebraic theory of interactive Markov chains is developed. Device algorithms to mechanize compositional aggregation are presented and state spaces of several million states resulting from the study of an ordinary telephone system are analyzed.

Transactions on Petri Nets and Other Models of Concurrency I Wil M. P. van der Aalst, Jonathan

Billington,2008-11-27 These Transactions publish archival papers in the broad area of Petri nets and other models of concurrency ranging from theoretical work to tool support and industrial applications ToPNoC issues are published as LNCS volumes and hence are widely distributed and indexed This Journal has its own Editorial Board which selects papers based on a rigorous two stage refereeing process ToPNoC contains Revised versions of a selection of the best papers from workshops and tutorials at the annual Petri net conferences special sections issues within particular subareas similar to those published in the Advances in Petri Nets series other papers invited for publication in ToPNoC papers submitted directly to ToPNoC by their authors This is the first volume of ToPNoC It contains revised and extended versions of a selection of the best papers from the workshops held at the 28th International Conference on Applications and Theory of Petri Nets and Other Models of Concurrency which took place in Siedlce Poland June 25 29 2007 The material has been selected and evaluated by the two Workshop and Tutorial Chairs Wil van der Aalst and Jonathan Billington in close cooperation with the chairs of the individual workshops The 13 papers in this volume cover a wide range of concurrency related topics including teaching concurrency process languages process mining software engineering state space visualization techniques timed Petri nets unfolding techniques and hardware systems Thus this volume gives a good overview of the state of the art in concurrency research

Formal Methods and Software Engineering Stephan Merz,Jun Pang,2014-10-15 This book constitutes the refereed proceedings of the 16th International Conference on Formal Engineering Methods ICFEM 2014 held in Luxembourg Luxembourg in November 2014 The 28 revised full papers presented were carefully reviewed and selected from 73 submissions The papers cover a wide range of topics in the area of formal methods and software engineering and are devoted to advancing the state of the art of applying formal methods in practice They focus in particular on combinations of conceptual and methodological aspects with their formal foundation and tool support **Formal Methods in**

Manufacturing Javier Campos,Carla Seatzu,Xiaolan Xie,2018-09-03 Illustrated with real life manufacturing examples Formal Methods in Manufacturing provides state of the art solutions to common problems in manufacturing systems Assuming some knowledge of discrete event systems theory the book first delivers a detailed introduction to the most important formalisms used for the modeling analysis and control of manufacturing systems including Petri nets automata and max plus algebra explaining the advantages of each formal method It then employs the different formalisms to solve specific problems taken from today s industrial world such as modeling and simulation supervisory control including deadlock prevention in a distributed and or decentralized environment performance evaluation including scheduling and optimization fault diagnosis and diagnosability analysis and reconfiguration Containing chapters written by leading experts in their respective fields Formal Methods in Manufacturing helps researchers and application engineers handle fundamental principles and deal with typical quality goals in the design and operation of manufacturing systems Biomechanical Models for Soft Tissue Simulation Walter Maurel,Yin Wu,Nadia Magnenat Thalmann,Daniel Thalmann,2013-11-22

Information Technology is having an increasing influence on medicine. This can be readily observed by anybody visiting a hospital or consulting a doctor or even by going to the chemist. A range of new medical instruments, new scanners, new on-line diagnostics as well as more effective distribution methods all increasingly contain IT elements that enable new, more effective medical tools and services. But there is also a lot going on behind the scenes at the research and development level that will greatly influence the medical tools and services of tomorrow. In this respect, Esprit, the European Commission's IT research program, has been supporting a range of research and development projects that are contributing to the opening of new avenues in the medical field. At the 1997 European IT Conference, a special exhibit has highlighted Esprit's contributions in the area, including, for example, projects that have succeeded in developing a prototype visual prosthesis linked to the optic nerve, MIVIP implantable blood micro pumps, IMALP new low power pacemakers and defibrillators, HIPOCRA T new high quality 3D ultrasound images, NICE realistic computer models of the human musculo-skeletal system, CHARM. CHARM, the last but not least of these, is further elaborated in this book.

System Performance Evaluation Erol Gelenbe, 2000-03-24

Throughout successive generations of information technology, the importance of the performance evaluation of software, computer architectures and computer networks endures. For example, the performance issues of transaction processing systems and redundant arrays of independent disks replace the virtual memory and input/output problems of the 70s. ATM performance issues supersede those associated with electronic telephony of the 70s. As performance issues evolve with the technologies, so must our approach to evaluation. In *System Performance Evaluation: Methodologies and Applications*, top academic and industrial experts review the major issues now faced in this arena. In a series of structured, focused chapters, they present the state of the art in performance methodologies and applications. They address developments in analytical modeling and its interaction with detailed analysis of measurement data. They also discuss performance evaluation methodologies for large-scale software systems in general and in the context of critical applications such as nuclear reactor control and air transportation systems. With its particular emphasis on network performance for wireless networks, the Internet and ATM networking, *System Performance Evaluation* becomes the ideal vehicle for professionals in computer architecture, networking and software engineering to stay up to date and proficient in this essential aspect of information technology.

Proceedings of the 2nd European Simulation Congress, Sept. 9-12, 1986, The Park Hotel, Antwerp, Belgium Philippe Geril, 1986

Programming Concepts and Methods PROCOMET '98 David Gries, Willem-Paul de Roever, 2013-04-17

This book constitutes the Proceedings of the IFIP Working Conference PRO-COMET 98 held 8-12 June 1998 at Shelter Island, N.Y. The conference is organized by the two IFIP TC 2 Working Groups 2.2 Formal Description of Programming Concepts and 2.3 Programming Methodology. WG2.2 and WG2.3 have been organizing these conferences every four years for over twenty years. The aim of such Working Conferences organized by IFIP Working Groups is to bring together leading scientists in a given area of computer science. Participation is by invitation only. As a result, these

conferences distinguish themselves from other meetings by extensive and competent technical discussions PROCOMET stands for Programming Concepts and Methods indicating that the area of discussion for the conference is the formal description of programming concepts and methods their tool support and their applications At PROCOMET working conferences papers are presented from this whole area reflecting the interest of the individuals in WG2 2 and WG2 3

Analytical and Stochastic Modelling Techniques and Applications Arnaud Devos, András Horváth, Sabina Rossi, 2024-10-19 This book constitutes the refereed proceedings of the 28th International Conference on Analytical and Stochastic Modelling Techniques and Applications ASMTA 2024 held in Venice Italy on June 14 2024 The 10 full papers presented were carefully reviewed and selected from 14 submissions These papers covered a wide range of topics in analytical and stochastic modeling techniques and their applications *Performance of Communication Systems* Alexander Ost, 2013-04-17 This book is about efficient communication The role of communication as a means for the transmission of information among people is one of the key factors driving the development of our civilization There are numerous examples where new achievements in the communications area had a crucial impact on our society The human language can be considered as one of the first steps for the efficient delivery of information between people Similarly the influence of other milestones like written communication bookprinting telegraphy and the telephone and television system was essential Facilities for quickly accessing existing information and for the fast delivery of information have become one of the most important economical factors nowadays Clearly fulfilling the ever increasing demand for fast cheap and reliable communications represents itself an important industry leading to substantial technical achievements in this area After only being used by an information elite in the beginning developments like the telephone system and the Internet quickly spread and are now widely accepted as witnessed by the ubiquitous presence of mobile phones and Internet applications like the World Wide Web *Formal Methods for Dynamical Systems* Marco Bernardo, Erik de Vink, Alessandra Di Pierro, Herbert Wiklicky, 2013-06-12 This book presents 5 tutorial lectures given by leading researchers at the 13th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2013 held in Bertinoro Italy in June 2013 SFM 2013 was devoted to dynamical systems and covered several topics including chaotic dynamics information theory systems biology hybrid systems quantum computing and automata based models and model checking Computational Probability Winfried K. Grassmann, 2013-03-14 Great advances have been made in recent years in the field of computational probability In particular the state of the art as it relates to queuing systems stochastic Petri nets and systems dealing with reliability has benefited significantly from these advances The objective of this book is to make these topics accessible to researchers graduate students and practitioners Great care was taken to make the exposition as clear as possible Every line in the book has been evaluated and changes have been made whenever it was felt that the initial exposition was not clear enough for the intended readership The work of major research scholars in this field comprises the

individual chapters of Computational Probability The first chapter describes in nonmathematical terms the challenges in computational probability Chapter 2 describes the methodologies available for obtaining the transition matrices for Markov chains with particular emphasis on stochastic Petri nets Chapter 3 discusses how to find transient probabilities and transient rewards for these Markov chains The next two chapters indicate how to find steady state probabilities for Markov chains with a finite number of states Both direct and iterative methods are described in Chapter 4 Details of these methods are given in Chapter 5 Chapters 6 and 7 deal with infinite state Markov chains which occur frequently in queueing because there are times one does not want to set a bound for all queues Chapter 8 deals with transforms in particular Laplace transforms The work of Ward Whitt and his collaborators who have recently developed a number of numerical methods for Laplace transform inversions is emphasized in this chapter Finally if one wants to optimize a system one way to do the optimization is through Markov decision making described in Chapter 9 Markov modeling has found applications in many areas three of which are described in detail Chapter 10 analyzes discrete time queues Chapter 11 describes networks of queues and Chapter 12 deals with reliability theory

CONCUR '98 Concurrency Theory Davide Sangiorgi, Robert de Simone, 1998-08-19 This book constitutes the refereed proceedings of the 9th International Conference on Concurrency Theory CONCUR 98 held in Nice France in September 1998 The 35 revised full papers presented were carefully selected from a total of 104 submissions Also presented are five invited contributions Among the topics covered are moduls of computation and semantic domains process algebras Petri Nets event structures real time systems hybrid systems model checking verification techniques refinement rewriting typing systems and algorithms etc

The Handbook of Reliability, Maintenance, and System Safety through Mathematical Modeling Amit Kumar, Mangey Ram, 2021-01-09 The Handbook of Reliability Maintenance and System Safety through Mathematical Modeling discusses the many factors affect reliability and performance including engineering design materials manufacturing operations maintenance and many more Reliability is one of the fundamental criteria in engineering systems design with maintenance serving as a way to support reliability throughout a system s life Addressing these issues requires information modeling analysis and testing Different techniques are proposed and implemented to help readers analyze various behavior measures in terms of the functioning and performance of systems Enables mathematicians to convert any process or system into a model that can be analyzed through a specific technique Examines reliability and mathematical modeling in a variety of disciplines unlike competitors which typically examine only one Includes a table of contents with simple to complex examples starting with basic models and then refining modeling approaches step by step

Smart Infrastructure and Applications Rashid Mehmood, Simon See, Iyad Katib, Imrich Chlamtac, 2019-06-20 This book provides a multidisciplinary view of smart infrastructure through a range of diverse introductory and advanced topics The book features an array of subjects that include smart cities and infrastructure e healthcare emergency and disaster management Internet of Vehicles supply chain management eGovernance and high

performance computing The book is divided into five parts Smart Transportation Smart Healthcare Miscellaneous Applications Big Data and High Performance Computing and Internet of Things IoT Contributions are from academics researchers and industry professionals around the world Features a broad mix of topics related to smart infrastructure and smart applications particularly high performance computing big data and artificial intelligence Includes a strong emphasis on methodological aspects of infrastructure technology and application development Presents a substantial overview of research and development on key economic sectors including healthcare and transportation

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