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Quantitative Methods in Parallel Systems



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Quantitative Models In Parallel Systems

**Francois Baccelli, Alain Jean-Marie, Isi
Mitrani**



Quantitative Models In Parallel Systems:

Quantitative Methods in Parallel Systems Francois Baccelli, Alain Jean-Marie, Isi Mittrani, 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 Rettelsbach as a novel approach for the structured design and analysis of both the functional behaviour and performance 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

Quantitative Modeling and Analysis of Service-oriented

Real-time Systems Using Interval Probabilistic Timed Automata Krause, Christian, Giese, Holger, 2012 One of the key challenges in service oriented systems engineering is the prediction and assurance of non functional properties such as the reliability and the availability of composite interorganizational services Such systems are often characterized by a variety of inherent uncertainties which must be addressed in the modeling and the analysis approach The different relevant types of uncertainties can be categorized into 1 epistemic uncertainties due to incomplete knowledge and 2 randomization as explicitly used in protocols or as a result of physical processes In this report we study a probabilistic timed model which

allows us to quantitatively reason about nonfunctional properties for a restricted class of service oriented real time systems using formal methods To properly motivate the choice for the used approach we devise a requirements catalogue for the modeling and the analysis of probabilistic real time systems with uncertainties and provide evidence that the uncertainties of type 1 and 2 in the targeted systems have a major impact on the used models and require distinguished analysis approaches The formal model we use in this report are Interval Probabilistic Timed Automata IPTA Based on the outlined requirements we give evidence that this model provides both enough expressiveness for a realistic and modular specification of the targeted class of systems and suitable formal methods for analyzing properties such as safety and reliability properties in a quantitative manner As technical means for the quantitative analysis we build on probabilistic model checking specifically on probabilistic time bounded reachability analysis and computation of expected reachability rewards and costs To carry out the quantitative analysis using probabilistic model checking we developed an extension of the Prism tool for modeling and analyzing IPTA Our extension of Prism introduces a means for modeling probabilistic uncertainty in the form of probability intervals as required for IPTA For analyzing IPTA our Prism extension moreover adds support for probabilistic reachability checking and computation of expected rewards and costs We discuss the performance of our extended version of Prism and compare the interval based IPTA approach to models with fixed probabilities

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

The Oxford Handbook of Quantitative Methods Todd D. Little, 2013 The Oxford Handbook of Quantitative Methods in Psychology provides an accessible and comprehensive review of the current state of the science and a one stop source for best practices in a quantitative methods across the social behavioral and educational sciences

Modeling Time in Computing Carlo A. Furia, Dino Mandrioli, Angelo Morzenti, Matteo Rossi, 2012-10-19 Models that include a notion of time are ubiquitous in disciplines such as the natural sciences engineering philosophy and linguistics but in computing the abstractions provided by the traditional models are problematic and the discipline has spawned many novel models This book is a systematic thorough presentation of the results of several decades of research on developing analyzing and applying time models to computing and engineering After an opening motivation introducing the topics structure and goals the authors introduce the notions of formalism and model in general terms along with some of their fundamental classification criteria In doing so they present the fundamentals of propositional and predicate logic and essential issues that arise when modeling time across all types of system Part I is a summary of the models that are traditional in engineering and the natural sciences including fundamental computer science dynamical systems and control theory hardware design and software algorithmic and complexity analysis Part II covers advanced and specialized formalisms dealing with time modeling in heterogeneous software intensive systems formalisms that share finite state machines as common ancestors Petri nets in many variants notations based on mathematical logic such as temporal logic process algebras and dual language approaches combining two notations with

different characteristics to model and verify complex systems e.g. model checking frameworks. Finally, the book concludes with summarizing remarks and hints towards future developments and open challenges. The presentation uses a rigorous yet not overly technical style appropriate for readers with heterogeneous backgrounds, and each chapter is supplemented with detailed bibliographic remarks and carefully chosen exercises of varying difficulty and scope. The book is aimed at graduate students and researchers in computer science, while researchers and practitioners in other scientific and engineering disciplines interested in time modeling with a computational flavor will also find the book of value. The comparative and conceptual approach makes this a valuable introduction for non-experts. The authors assume a basic knowledge of calculus, probability theory, algorithms, and programming, while a more advanced knowledge of automata, formal languages, and mathematical logic is useful.

Body of Knowledge for Modeling and Simulation Tuncer Ören, Bernard P. Zeigler, Andreas Tolk, 2023-01-27. Commissioned by the Society for Modeling and Simulation International (SCS), this needed useful new Body of Knowledge (BoK) collects and organizes the common understanding of a wide collection of professionals and professional associations. Modeling and simulation (M/S) is a ubiquitous discipline that lays the computational foundation for real and virtual experimentation, clearly stating boundaries and interactions of systems, data, and representations. The field is well known too for its training support via simulations and simulators. Indeed, with computers increasingly influencing the activities of today's world, M/S is the third pillar of scientific understanding, taking its place along with theory building and empirical observation. This valuable new handbook provides intellectual support for all disciplines in analysis, design, and optimization. It contributes increasingly to the growing number of computational disciplines addressing the broad variety of contributing as well as supported disciplines and application domains. Further, each of its sections provides numerous references for further information. Highly comprehensive, the BoK represents many viewpoints and facets captured under such topics as Mathematical and Systems Theory, Foundations, Simulation Formalisms and Paradigms, Synergies with Systems Engineering and Artificial Intelligence, Multidisciplinary Challenges, Ethics and Philosophy, Historical Perspectives, Examining theoretical as well as practical challenges. This unique volume addresses the many facets of M/S for scholars, students, and practitioners. As such, it affords readers from all science, engineering, and arts disciplines a comprehensive and concise representation of concepts, terms, and activities needed to explain the M/S discipline. Tuncer Ören is Professor Emeritus at the University of Ottawa. Bernard Zeigler is Professor Emeritus at the University of Arizona. Andreas Tolk is Chief Scientist at The MITRE Corporation. All three editors are long-time members and Fellows of the Society for Modeling and Simulation International. Under the leadership of three SCS Fellows—Dr. Ören, University of Ottawa; Dr. Zeigler, The University of Arizona; and Dr. Tolk, The MITRE Corporation—more than 50 international scholars from 15 countries provided insights and experience to compile this initial M/S Body of Knowledge.

[The Oxford Handbook of Quantitative Methods, Volume 1: Foundations](#) Todd D. Little, 2013-01-15. Research today demands the application of sophisticated and powerful research tools. Fulfilling this

need The Oxford Handbook of Quantitative Methods is the complete tool box to deliver the most valid and generalizable answers to today's complex research questions. It is a one-stop source for learning and reviewing current best practices in quantitative methods as practiced in the social, behavioral, and educational sciences. Comprising two volumes, this handbook covers a wealth of topics related to quantitative research methods. It begins with essential philosophical and ethical issues related to science and quantitative research. It then addresses core measurement topics before delving into the design of studies. Principal issues related to modern estimation and mathematical modeling are also detailed. Topics in the handbook then segway into the realm of statistical inference and modeling with chapters dedicated to classical approaches as well as modern latent variable approaches. Numerous chapters associated with longitudinal data and more specialized techniques round out this broad selection of topics. Comprehensive, authoritative, and user-friendly, this two-volume set will be an indispensable resource for serious researchers across the social, behavioral, and educational sciences.

Modeling and Managing Interdependent Complex Systems of Systems Yacov Y. Haimes, 2018-09-04 A comprehensive guide to the theory, methodology, and development for modeling systems of systems. Modeling and Managing Interdependent Complex Systems of Systems examines the complexity of and the risk to emergent interconnected and interdependent complex systems of systems in the natural and the constructed environment and in its critical infrastructures. For systems modelers, this book focuses on what constitutes complexity and how to understand, model, and manage it. Previous modeling methods for complex systems of systems were aimed at developing theory and methodologies for uncoupling the interdependencies and interconnections that characterize them. In this book, the author extends the above by utilizing public and private sector case studies, identifies, explores, and exploits the core of interdependencies, and seeks to understand their essence via the states of the system and their dominant contributions to the complexity of systems of systems. The book proposes a reevaluation of fundamental and practical systems engineering and risk analysis concepts on complex systems of systems developed over the past 40 years. This important resource updates and streamlines systems engineering theory, methodology, and practice as applied to complex systems of systems. Introduces modeling methodology inspired by philosophical and conceptual thinking from the arts and sciences. Models the complexity of emergent interdependent and interconnected complex systems of systems by analyzing their shared states, decisions, resources, and decisionmakers. Written for systems engineers, industrial engineers, managers, planners, academics, and other professionals in engineering systems and the environment, this text is the resource for understanding the fundamental principles of modeling and managing complex systems of systems and the risk thereto.

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

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Table of Contents Quantitative Models In Parallel Systems

1. Understanding the eBook Quantitative Models In Parallel Systems
 - The Rise of Digital Reading Quantitative Models In Parallel Systems
 - Advantages of eBooks Over Traditional Books
2. Identifying Quantitative Models In Parallel Systems
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Quantitative Models In Parallel Systems
 - User-Friendly Interface
4. Exploring eBook Recommendations from Quantitative Models In Parallel Systems
 - Personalized Recommendations
 - Quantitative Models In Parallel Systems User Reviews and Ratings
 - Quantitative Models In Parallel Systems and Bestseller Lists
5. Accessing Quantitative Models In Parallel Systems Free and Paid eBooks
 - Quantitative Models In Parallel Systems Public Domain eBooks
 - Quantitative Models In Parallel Systems eBook Subscription Services
 - Quantitative Models In Parallel Systems Budget-Friendly Options

6. Navigating Quantitative Models In Parallel Systems eBook Formats
 - ePub, PDF, MOBI, and More
 - Quantitative Models In Parallel Systems Compatibility with Devices
 - Quantitative Models In Parallel Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Quantitative Models In Parallel Systems
 - Highlighting and Note-Taking Quantitative Models In Parallel Systems
 - Interactive Elements Quantitative Models In Parallel Systems
8. Staying Engaged with Quantitative Models In Parallel Systems
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Quantitative Models In Parallel Systems
9. Balancing eBooks and Physical Books Quantitative Models In Parallel Systems
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Quantitative Models In Parallel Systems
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Quantitative Models In Parallel Systems
 - Setting Reading Goals Quantitative Models In Parallel Systems
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Quantitative Models In Parallel Systems
 - Fact-Checking eBook Content of Quantitative Models In Parallel Systems
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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