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PERFORMANCE OF COMPUTER COMMUNICATION SYSTEMS

A Model-Based Approach

BOUDEWIJN R. HAVERKORT

Performance Of Computer Communication Systems A Model Based Approach

**Alberto Bemporad, Antonio
Bicchi, Giorgio C Buttazzo**



Performance Of Computer Communication Systems A Model Based Approach:

Performance of Computer Communication Systems Boudewijn R. Haverkort, 1998-12-04 Computer communication systems or distributed systems are now able to perform an increasingly diverse range of functions This text aims to provide the techniques and methods to evaluate communication systems and ensure their functionality and the quality of their design It takes a non mathematical problem solving approach and includes assessment techniques for single server queues networks of queues and stochastic petri nets **Performance of Computer Communication Systems** Boudewijn R. Haverkort, 1983

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 **Probability and Statistics with Reliability, Queuing, and**

Computer Science Applications Kishor S. Trivedi, 2016-06-30 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 *Hybrid Systems: Computation and Control* Joao Hespanha, 2006-03-20 This book constitutes the refereed proceedings of the 9th International Workshop on Hybrid Systems Computation and Control HSCC 2006 held in Santa Barbara CA USA in March

2006 The 39 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 79 submissions Among the topics addressed are tools for analysis and verification control and optimization modeling engineering applications and emerging directions in programming language support and implementation The papers focus on modeling analysis and implementation of dynamic and reactive systems involving both discrete and continuous behaviors

Formal Methods for Quantitative Aspects of Programming Languages Alessandro Aldini,Marco

Bernardo,Alessandra Di Pierro,Herbert Wiklicky,2010-06-26 This book presents a set of 4 papers accompanying the lectures of leading researchers given at the 10th edition of the International School on Formal Methods for the Design of Computer Communication and Software Systems SFM 2010 held in Bertinoro Italy in June 2010 SFM 2010 was devoted to formal methods for quantitative aspects of programming languages and covered several topics including probabilistic and timed models model checking static analysis quantum computing real time and embedded systems and security **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 **Fundamental Approaches to Software**

Engineering Stefania Gnesi,Arend Rensink,2014-03-21 This book constitutes the proceedings of the 17th International Conference on Fundamental Approaches to Software Engineering FASE 2014 held as part of the European Joint Conferences on Theory and Practice of Software ETAPS 2014 which took place in Grenoble France in April 2014 The 28 papers included in this volume together with one invited talk were carefully reviewed and selected from 125 submissions They have been organized in topical sections on modeling and model transformation time and performance static analysis scenario based specification software verification analysis and repair verification and validation graph transformation and debugging and testing **Verification and Evaluation of Computer and Communication Systems** Belgacem Ben Hedia,Yu-Fang

Chen,Gaiyun Liu,Zhenhua Yu,2020-12-19 This book constitutes the proceedings of the 14th International Conference on Verification and Evaluation of Computer and Communication Systems VECoS 2020 which was supposed to be held in Xi an China in October 2020 but was held virtually instead The 19 full papers and 1 short paper presented in this volume were carefully reviewed and selected from 60 submissions The aim of the VECoS conference is to bring together researchers and practitioners in the areas of verification control performance and dependability evaluation in order to discuss state of the art

and challenges in modern computer and communication systems in which functional and extra functional properties are strongly interrelated. Thus the main motivation for VECoS is to encourage the cross fertilization between various formal verification and evaluation approaches, methods and techniques, and especially those developed for concurrent and distributed hardware software systems. The papers are organized in the following topical sections: Petri net simulation and scheduling, formal modeling and verification, testing and artificial intelligence and machine learning.

Harry Markowitz
Harry Markowitz, 2009-03-03
Harry M Markowitz received the Nobel Prize in Economics in 1990 for his pioneering work in portfolio theory. He also received the von Neumann Prize from the Institute of Management Science and the Operations Research Institute of America in 1989 for his work in portfolio theory, sparse matrices and the SIMSCRIPT computer language. While Dr Markowitz is well known for his work on portfolio theory, his work on sparse matrices remains an essential part of linear optimization calculations. In addition, he designed and developed SIMSCRIPT OCo, a computer programming language. SIMSCRIPT has been widely used for simulations of systems such as air transportation and communication networks.

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