



RELIABILITY

in System Design



Mathematical Computer Performance And Reliability

Minjie Lin

Mathematical Computer Performance And Reliability:

Mathematical Computer Performance and Reliability Giuseppe G. Iazeolla, Pierre Jacques Courtois, A. Hordijk, 1984
Hardbound This book provides a review of this field and incorporates some of the most significant quantitative methods which can satisfy the demand of scientists and users interested in the mathematics of computer system engineering. It emphasizes interdisciplinary aspects of applied mathematics and computer science and is the result of contributions by scientists who are active in applied mathematical research of interest to the analysis of computer performance and reliability.

Mathematical Computer Performance And Reliability (proc. Int. Workshop) Pisa, Sep. 26-30, 1983 G. Iazeolla,

Fehlertolerierende Rechensysteme / Fault-tolerant Computing Systems Winfried Görke, Holger Sörensen, 2012-12-06
Dieses Buch enthält die Beiträge der 4. GI ITG GMA Fachtagung über Fehlertolerierende Rechensysteme, die im September 1989 in einer Reihe von Tagungen in München 1982, Bonn 1984 sowie Bremerhaven 1987 veranstaltet wurde. Die 31 Beiträge darunter 4 eingeladene sind teils in deutscher Sprache verfasst. Insgesamt wird durch diese Beiträge die Entwicklung der Konzeption und Implementierung fehlertoleranter Systeme in den letzten zwei Jahren vor allem in Europa dokumentiert. Sätzliche Beiträge berichten über neue Forschungs- oder Entwicklungsergebnisse.

Introduction to the Numerical Solution of Markov Chains William J. Stewart, 2021-01-12
A cornerstone of applied probability, Markov chains can be used to help model how plants grow, chemicals react, and atoms diffuse, and applications are increasingly being found in such areas as engineering, computer science, economics, and education. To apply the techniques to real problems, however, it is necessary to understand how Markov chains can be solved numerically. In this book, the first to offer a systematic and detailed treatment of the numerical solution of Markov chains, William Stewart provides scientists on many levels with the power to put this theory to use in the actual world, where it has applications in areas as diverse as engineering, economics, and education. His efforts make for essential reading in a rapidly growing field. Here Stewart explores all aspects of numerically computing solutions of Markov chains, especially when the state space is huge. He provides extensive background to both discrete-time and continuous-time Markov chains and examines many different numerical computing methods: direct, single and multi vector, iterative, and projection methods. More specifically, he considers recursive methods often used when the structure of the Markov chain is upper Hessenberg; iterative aggregation-disaggregation methods that are particularly appropriate when it is NCD (nearly completely decomposable) and reduced schemes for cases in which the chain is periodic. There are chapters on methods for computing transient solutions on stochastic automata networks and finally on currently available software. Throughout, Stewart draws on numerous examples and comparisons among the methods he so thoroughly explains.

Dependable Computing for Critical Applications 3
Carl E. Landwehr, Brian Randell, Luca Simoncini, 2013-06-29
This volume contains the papers presented at the Third IFIP International Working Conference on Dependable Computing for Critical Applications sponsored by IFIP Working Group 10.4.

and held in Mondello Sicily Italy on September 14 16 1992 System developers increasingly apply computers where they can affect the safety and security of people and equipment The Third IFIP International Working Conference on Dependable Computing for Critical Applications like its predecessors addressed various aspects of computer system dependability a broad term defined as the degree of trust that may justifiably be placed in a system s reliability availability safety security and performance Because the scope of the conference was so broad we hope the presentations and discussions will contribute to the integration of these concepts so that future computer based systems will indeed be more dependable The Program Committee selected 18 papers for presentation from a total of 7 4 submissions at a May meeting in Newcastle upon Tyne UK The resulting program represented a broad spectrum of interests with papers from universities corporations and government agencies in eight countries Much diligent work by the Program Committee and the quality of reviews from more than a hundred external referees from around the world for which we are most grateful significantly eased the production of this technical program *Stochastic Analysis of Computer and Communication Systems* Hideaki Takagi,1990 Analytical techniques for evaluating the performance of computer and communication systems have evolved hand in hand with the progress in these systems since the late 1960 s and an enormous amount of knowledge has been accumulated in this interplay of applied mathematics and computer science This book includes nineteen lengthy surveys of the state of the art of performance evaluation techniques and an extensive bibliography The topics include stochastic processes and queueing theory applied to performance analysis and performance models of computer systems and communication networks Articles have been contributed by leading scientists from five continents *Mathematical Reviews* ,1997 *IEEE International Computer Performance and Dependability Symposium* ,1996 *Queueing Theory and Applications* ,1992 **Queueing Analysis: Discrete-time systems** Hideaki Takagi,1991 **Handbook of Discrete and Combinatorial Mathematics** Kenneth H. Rosen,2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition *Index of Conference Proceedings*

*Received British Library. Lending Division,1988 **Proceedings of the IEEE 1992 National Aerospace and Electronics Conference, NAECON 1992** ,1992 *Advances in Queueing Theory* ,2002 **Economic Journal of Hokkaido University** ,2004 **Predictably Dependable Computing Systems** Brian Randell,1995-06-09* This book provides an

overview of the work of two successive ESPRIT Basic Research Projects on Predictably Dependable Computing Systems PDCS as well as their major achievements The purpose of the projects has been to contribute to making the process of designing and constructing dependable computing systems much more predictable and cost effective The book contains a carefully edited selection of papers on all four main topics in PDCS fault prevention fault tolerance fault removal and fault forecasting Problems of real time and distributed systems system structuring qualitative evaluation and software dependability modelling are emphasized The book reports on the latest research on PDCS from a team including many of Europe's leading researchers **Computing** Edward Grady Coffman,J. K. Lenstra,A. H. G. Rinnooy Kan,1992-11-26
Handbook **Subject Guide to Books in Print** ,1984 Directory of Published Proceedings ,1985 Mathematics of Dependable Systems Chris Mitchell,Victoria Stavridou,1995 Dependable systems is all about setting up controls to ensure maximum security reliability and safety in engineering and technology With the increased use of computerized controls in airliners manufacturing plants and nuclear power stations the topic is a significant one for computer scientists and engineers These are the edited proceedings of the first international conference on the Mathematics of Dependable Systems which took place at Royal Holloway University of London in 1993 The goal of the conference was to identify unifying mathematical schemes for safety and security to enable interaction of ideas from different fields Contributions from active researchers focus on safety critical systems software testing and reliability computer security entity authentication formal methods and fault tolerance

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