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High Performance Computing Systems. Performance Modeling, Benchmarking and Simulation Springer 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.

Doing a Research Project in Sport Performance Analysis John Wiley & Sons

The ability of parallel computing to process large data sets and handle time-consuming operations has resulted in unprecedented advances in biological and scientific computing, modeling, and simulations. Exploring these recent developments, the Handbook of Parallel Computing: Models, Algorithms, and Applications provides comprehensive coverage on a

Formal Methods for Performance Evaluation CSC Journals

Critically acclaimed text for computer performance analysis--now in its second edition The Second Edition of this now-classic text provides a current and thorough treatment of queueing systems, queueing networks, continuous and discrete-time Markov chains, and simulation. Thoroughly updated with new content, as well as new problems and worked examples, the text offers readers both the theory and practical guidance needed to conduct performance and reliability evaluations of computer, communication, and manufacturing systems. Starting with basic probability theory, the text sets the foundation for the more complicated topics of queueing networks and Markov chains, using applications and examples to illustrate key points. Designed to engage the reader and build practical performance analysis skills, the text features a wealth of problems that mirror actual industry challenges. New features of the Second Edition include: * Chapter examining simulation methods and applications * Performance analysis applications for wireless, Internet, J2EE, and Kanban systems * Latest material on non-Markovian and fluid stochastic Petri nets, as well as solution techniques for Markov regenerative processes * Updated discussions of new and popular performance analysis tools, including ns-2 and OPNET * New and current real-world examples, including DiffServ routers in the Internet and cellular mobile networks With the rapidly growing complexity of computer and communication systems, the need for this text, which expertly mixes theory and practice, is tremendous. Graduate and advanced undergraduate students in computer science will find the extensive use of examples and problems to be vital in mastering both the basics and the fine points of the field, while industry professionals will find the text essential for developing systems that comply with industry standards and regulations.

Proceedings of the First International Conference on SCI 2016, Volume 2 Springer

The opportunistic network is an emerging and recent area of research. To make this research area more adaptable for practical and industrial use, there is a need to further investigate several research challenges in all aspects of opportunistic networks. Therefore, Opportunistic Networks: Fundamentals, Applications and Emerging Trends provides theoretical, algorithmic, simulation, and implementation-based research developments related to fundamentals, applications, and emerging research trends in opportunistic networks. The book follows a theoretical approach to describe fundamentals to beginners and incorporates a practical approach depicting the implementation of real-life applications to intermediate and advanced readers. This book is beneficial for academicians, researchers, developers, and engineers who work in or are interested in the fields related to opportunistic networks, delay tolerant networks, and intermittently connected ad hoc networks. This book also serves as a reference book for graduate and postgraduate courses in computer science, computer engineering, and information technology streams.

Opportunistic Networks Springer Science & Business Media

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.

Journal of Computer-based Instruction Digital Press

As software systems become more and more ubiquitous, the issues of dependability become more and more critical. Given that solutions to these issues must be planned at the beginning of the design process, it is appropriate that these issues be addressed at the architectural level. This book is inspired by the ICSE 2002 Workshop on Architecting Dependable Systems; it is devoted to current topics relevant for improving the state of the art for architecting dependability. Some of the 13 peer-reviewed papers presented were initially presented at the workshop, others were invited in order to achieve competent and complete coverage of all relevant aspects. The papers are organized in topical sections on - architectures for dependability - fault tolerance in software architectures - dependability analysis in software architectures - industrial experience.

Handbook of Parallel Computing CRC Press

Computer Performance EvaluationModelling Techniques and ToolsSpringer

7th International School on Formal Methods for the Design of Computer, Communication, and Software Systems, SFM 2007, Bertinoro, Italy, May 8-June 2, 2007, Advanced Lectures Springer

Table of contents

Models, Algorithms and Applications Elsevier Science Limited

This monograph-like state-of-the-art survey presents the history, the key ideas, the success stories, and future challenges of performance evaluation and demonstrates the impact of performance evaluation on a variety of different areas through case studies in a coherent and comprehensive way. Leading researchers in the field have contributed 19 cross-reviewed topical chapters competently covering the whole range of performance evaluation, from theoretical and methodological issues to applications in numerous other fields. Additionally, the book contains one contribution on the role of performance evaluation in industry and personal accounts of four pioneering researchers describing the genesis of breakthrough results. The book will become a valuable source of reference and indispensable reading for anybody active or interested in performance evaluation.

Data Analysis in Sport CRC Press

The only singular, all-encompassing textbook on state-of-the-art technical performance evaluation Fundamentals of Performance Evaluation of Computer and Telecommunication Systems uniquely presents all techniques of performance evaluation of computers systems, communication networks, and telecommunications in a balanced manner. Written by the renowned Professor Mohammad S. Obaidat and his coauthor Professor Noureddine Boudriga, it is also the only resource to treat computer and telecommunication systems as inseparable issues. The authors explain the basic concepts of performance evaluation, applications, performance evaluation metrics, workload types, benchmarking, and characterization of workload. This is followed by a review of the basics of probability theory, and then, the main techniques for performance evaluation—namely measurement, simulation, and analytic modeling—with case studies and examples. Contains the practical and applicable knowledge necessary for a successful performance evaluation in a balanced approach Reviews measurement tools, benchmark programs, design of experiments, traffic models, basics of queueing theory, and operational and mean value analysis Covers the techniques for validation and verification of simulation as well as random number generation, random variate generation, and testing with examples Features numerous examples and case studies, as well as exercises and problems for use as homework or programming assignments Fundamentals of Performance Evaluation of Computer and Telecommunication Systems is an ideal textbook for graduate students in computer science, electrical engineering, computer engineering, and information sciences, technology, and systems. It is also an excellent reference for practicing engineers and scientists.

10th International Conference, Kope, Japan, July 17-20, 2012, Revised Selected Papers Springer Science & Business Media

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 di?erent 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 di?erence 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 tra- mission. During the last decade, this trend has motivated an increased interest in c- bining insights and results from the ?eld 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 markthe - ginning 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 worktowards the realization of this goal will be a growing source of inspiration and progress for both communities.

International Journal of Computer Science and Security Springer Science & Business Media

The need to evaluate computer and communication systems performance and dependability is continuously growing as a consequence of both the increasing complexity of systems and the user requirements in terms of timing behaviour. The 10th International Conference on Modelling Techniques and Tools for C- puter Performance Evaluation, held in Palma in September 1998, was organised with the aim of creating a forum in which both theoreticians and practitioners could interchange recent techniques, tools, and experiences in these areas. This meeting follows the predecessor conferences of this series: 1984 Paris 1988 Palma 1994 Wien 1985 Sophia Antipolis 1991 Torino 1995 Heidelberg 1987 Paris 1992 Edinburgh 1997 Saint Malo The tradition of this conference series continued this year where many high quality papers were submitted. The Programme Committee had a di cult task in selecting the best papers. Many ne papers could not be included in the program due to space constraints. All accepted papers are included in this volume. Also, a set of submissions describing performance modelling tools was transformed into tool presentations and demonstrations. A brief description of these tools is included in this volume. The following table gives the overall statistics for the submissions.

Computer Systems Performance Evaluation and Prediction Springer Science & Business Media

The Ad-hoc wireless network is a collection of specific infrastructure-less mobile nodes that form a temporary system without any centralized administration. Communication by mobile devices has become more widespread than before because of the recent technological advances in wireless communication. Here in this book we are targeting the scientific and academic researchers who are interested in Ad-hoc wireless networks. And those who want to expand their scop and knowledge about the network in general. Also, it is targeting those who want to learn more in regard to networking and wireless communication technology.

Formal Methods and Stochastic Models for Performance Evaluation MIT Press

Performance Analysis of Queuing and Computer Networks develops simple models and analytical methods from first principles to evaluate performance metrics of various configurations of computer systems and networks. It presents many concepts and results of probability theory and stochastic processes. After an introduction to queues in computer networks, this self-contained book covers important random variables, such as Pareto and Poisson, that constitute models for arrival and service disciplines. It then deals with the equilibrium $M/M/1/\infty$queue, which is the simplest queue that is amenable for analysis. Subsequent chapters explore applications of continuous time, state-dependent single Markovian queues, the $M/G/1$ system, and discrete time queues in computer networks. The author then proceeds to study networks of queues with exponential servers and Poisson

external arrivals as well as the G/M/1 queue and Pareto interarrival times in a G/M/1 queue. The last two chapters analyze bursty, self-similar traffic, and fluid flow models and their effects on queues.

Computer Performance Engineering Computer Performance EvaluationModelling Techniques and Tools

This book constitutes the refereed proceedings of the 4th International Workshop, PMBS 2013 in Denver, CO, USA in November 2013. The 14 papers presented in this volume were carefully reviewed and selected from 37 submissions. The selected articles broadly cover topics on massively parallel and high-performance simulations, modeling and simulation, model development and analysis, performance optimization, power estimation and optimization, high performance computing, reliability, performance analysis, and network simulations.

Performance Evaluation and Benchmarking with Realistic Applications Springer

The book is aimed at graduate students, researchers, engineers and physicists involved in fluid computations. An up-to-date account is given of the present state of the art of numerical methods employed in computational fluid dynamics. The underlying numerical principles are treated with a fair amount of detail, using elementary methods. Attention is given to the difficulties arising from geometric complexity of the flow domain. Uniform accuracy for singular perturbation problems is studied, pointing the way to accurate computation of flows at high Reynolds number. Unified methods for compressible and incompressible flows are discussed. A treatment of the shallow-water equations is included. A basic introduction is given to efficient iterative solution methods. Many pointers are given to the current literature, facilitating further study.

Parallel Optimization EPFL Press

modelling large-scale pr- lems in computing and biochemistry.

Lectures on Formal Methods and Performance Analysis Springer Science & Business Media

This book constitutes the refereed proceedings of the Third European Performance Engineering Workshop, EPEW 2006, held in Budapest, Hungary in June 2006. The 16 revised full papers presented were carefully reviewed and selected from 40 submissions. The papers are organized in topical sections on stochastic process algebra, workloads and benchmarks, theory of stochastic processes, formal dependability and performance evaluation, as well as queues, theory and practice.

Performance Analysis of Queuing and Computer Networks Springer Science & Business Media

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.

Third European Performance Engineering Workshop, EPEW 2006, Budapest, Hungary, June 21-22, 2006, Proceedings John Wiley & Sons

Performance evaluation is a critical stage of software- and hardware-system development that every computer engineer and scientist should master. Although complex – requiring skills in mathematics, measurement techniques and simulation – performance evaluation is primarily an art; indeed, the most difficult stage in a performance analysis is defining the approach: once you know what to do, it is less difficult to define a plan of attack with your familiar software tools. We present a set of topics, which we believe should be part of every engineer's intellectual toolkit. This includes the statistical exploitation of numerical results in an efficient and ethical way, for example: how to summarize variability or fairness; what transient removal in a simulation is; and how to make predictions from a time series. We also present well-known performance patterns, which helps to quickly bring the engineer to the main issues. For queuing theory, we focus on a subset of very useful results, such as operational laws. A highlight of the book is the development of Palm calculus, also called ¬ ì the importance of the viewpoint, ¬ î which is central to queuing theory. Indeed, this topic has so many applications to simulation and to system analysis in general that it is a very good time investment. This book began as a set of lecture notes for a course given at EPFL.