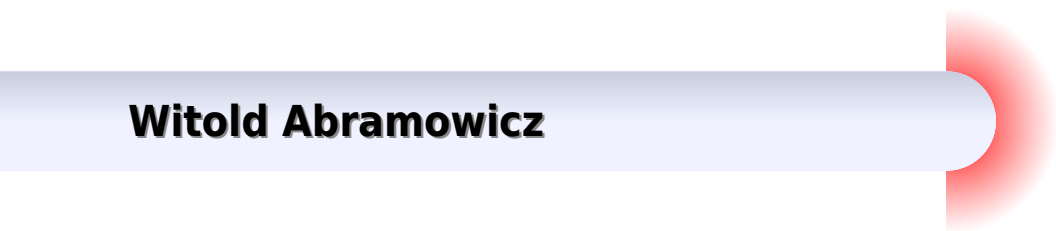


Katinka Wolter · Alberto Avritzer
Marco Vieira · Aad van Moorsel *Editors*

Resilience Assessment and Evaluation of Computing Systems

Resilience Assessment And Evaluation Of Computing Systems

Witold Abramowicz



Resilience Assessment And Evaluation Of Computing Systems:

Resilience Assessment and Evaluation of Computing Systems Katinka Wolter, Alberto Avritzer, Marco Vieira, Aad van Moorsel, 2012-11-02 The resilience of computing systems includes their dependability as well as their fault tolerance and security. It defines the ability of a computing system to perform properly in the presence of various kinds of disturbances and to recover from any service degradation. These properties are immensely important in a world where many aspects of our daily life depend on the correct, reliable, and secure operation of often large-scale distributed computing systems. Wolter and her co-editors grouped the 20 chapters from leading researchers into seven parts: an introduction and motivating examples, modeling techniques, model-driven prediction, measurement and metrics, testing techniques, case studies, and conclusions. The core is formed by 12 technical papers which are framed by motivating real-world examples and case studies, thus illustrating the necessity and the application of the presented methods. While the technical chapters are independent of each other and can be read in any order, the reader will benefit more from the case studies if he or she reads them together with the related techniques. The papers combine topics like modeling, benchmarking, testing, performance evaluation, and dependability and aim at academic and industrial researchers in these areas as well as graduate students and lecturers in related fields. In this volume, they will find a comprehensive overview of the state of the art in a field of continuously growing practical importance.

Performance, Reliability, and Availability Evaluation of Computational Systems, Volume 2 Paulo Romero Martins Maciel, 2023-04-06 This textbook intends to be a comprehensive and substantially self-contained two-volume book covering performance, reliability, and availability evaluation subjects. The volumes focus on computing systems, although the methods may also be applied to other systems. The first volume covers Chapter 1 to Chapter 14, whose subtitle is Performance Modeling and Background. The second volume encompasses Chapter 15 to Chapter 25 and has the subtitle Reliability and Availability Modeling: Measuring and Workload and Lifetime Data Analysis. This text is helpful for computer performance professionals for supporting planning, design, configuring, and tuning the performance, reliability, and availability of computing systems. Such professionals may use these volumes to get acquainted with specific subjects by looking at the particular chapters. Many examples in the textbook on computing systems will help them understand the concepts covered in each chapter. The text may also be helpful for the instructor who teaches performance, reliability, and availability evaluation subjects. Many possible threads could be configured according to the interest of the audience and the duration of the course. Chapter 1 presents a good number of possible courses/programs that could be organized using this text. Volume II is composed of the last two parts. Part III examines reliability and availability modeling by covering a set of fundamental notions, definitions, redundancy procedures, and modeling methods such as Reliability Block Diagrams (RBD) and Fault Trees (FT) with the respective evaluation methods. It adopts Markov chains, Stochastic Petri nets, and even hierarchical and heterogeneous modeling to represent more complex systems. Part IV discusses performance measurements and reliability data analysis. It

first depicts some basic measuring mechanisms applied in computer systems then discusses workload generation After we examine failure monitoring and fault injection and finally we discuss a set of techniques for reliability and maintainability data analysis

Foundations of Software and System Performance Engineering André B. Bondi, 2015 The absence of clearly written performance requirements is the cause of much confusion and bad software architectures this book's coverage of performance requirements engineering and domain specific performance metrics at every stage of the software process addresses the problem Application of the principles in this book will considerably mitigate the risks that performance post to the success of a software system and lead to a better quality product with wider acceptance

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Systems Benchmarking Samuel Kounev, Klaus-Dieter Lange, Jóakim von Kistowski, 2025-03-21 This book serves as both a textbook and handbook on the benchmarking of systems and components used as building blocks of modern information and communication technology applications It provides theoretical and practical foundations as well as an in depth exploration of modern benchmarks and benchmark development The book is divided into two parts foundations and applications The first part introduces the foundations of benchmarking as a discipline covering the three fundamental elements of each benchmarking approach metrics workloads and measurement

methodology The second part focuses on different application areas presenting contributions in specific fields of benchmark development These contributions address the unique challenges that arise in the conception and development of benchmarks for specific systems or subsystems and they demonstrate how the foundations and concepts in the first part of the book are being used in existing benchmarks Further the book presents a number of concrete applications and case studies based on input from leading benchmark developers from consortia such as the Standard Performance Evaluation Corporation SPEC and the Transaction Processing Performance Council TPC Besides a number of updates in almost all chapters for this new edition three chapters are added in Part II of the book 1 Machine Learning and Artificial Intelligence to cater the growing need to evaluate and benchmark ML and AI systems 2 Scalability of Networks and Systems focusing on novel metrics and techniques to evaluate scalability and 3 PC Workstation Graphics and Network Benchmarks covering popular benchmarks like SYSmark PCMark Phoronix Test Suite 3DMark the Blender benchmark and end to end network performance tools Providing both practical and theoretical foundations as well as a detailed discussion of modern benchmarks and their development the book is intended as a handbook for professionals and researchers working in areas related to benchmarking It offers an up to date point of reference for existing work as well as latest results research challenges and future research directions It also can be used as a textbook for graduate and postgraduate students studying any of the many subjects related to benchmarking While readers are assumed to be familiar with the principles and practices of computer science as well as software and systems engineering no specific expertise in any subfield of these disciplines is required

Quantitative Evaluation of Systems Gethin Norman, William Sanders, 2014-08-27 This book constitutes the proceedings of the 11th International Conference on Quantitative Evaluation of Systems QEST 2014 held in Florence Italy in September 2014 The 24 full papers and 5 short papers included in this volume were carefully reviewed and selected from 61 submissions They are organized in topical sections named Kronecker and product form methods hybrid systems mean field population analysis models and tools simulation queueing debugging and tools process algebra and equivalences automata and Markov process theory applications theory and tools and probabilistic model checking

Business Information Systems Workshops Witold Abramowicz, 2013-10-17 This book constitutes the refereed proceedings of the four workshops that were organized in conjunction with the International Conference on Business Information Systems BIS 2013 which took place in Pozna Poland in June 2013 BIS workshops give researchers the opportunity to share their preliminary ideas and first experimental results and to discuss research hypotheses with a highly focused audience The 25 papers in this volume were carefully reviewed and selected from 47 submissions and were revised and extended after the event The workshop topics covered applications and economics of knowledge based technologies AKTB business and IT alignment BITA enterprise systems for higher education ESHE and formal semantics for future enterprises FSFE In addition two keynotes as well as ten papers presented at the PhD Symposium are also included in this volume

Collaborative Networks of Cognitive Systems Luis M.

Camarinha-Matos, Hamideh Afsarmanesh, Yacine Rezgui, 2018-09-06 This book constitutes the refereed proceedings of the 19th IFIP WG 5.5 Working Conference on Virtual Enterprises PRO-VE 2018 held in Cardiff UK in September 2018. The 57 revised full papers were carefully reviewed and selected from 143 submissions. They provide a comprehensive overview of identified challenges and recent advances in various collaborative network (CN) domains and their applications with a strong focus on the following areas: blockchain in collaborative networks; industry transformation and innovation; semantics in networks of cognitive systems; cognitive systems for resilience management; collaborative energy services in smart cities; cognitive systems in agribusiness; building information modeling; industry 4.0 support frameworks; health and social welfare services; risk, privacy and security; collaboration platform issues; sensing smart and sustainable enterprises; information systems integration; dynamic logistics networks; collaborative business processes; value creation in networks; users and organizations; profiling and collaborative business strategies.

Benchmarking Transaction and Analytical Processing Systems Anja Bog, 2013-07-11 Systems for Online Transaction Processing (OLTP) and Online Analytical Processing (OLAP) are currently separate. The potential of the latest technologies and changes in operational and analytical applications over the last decade have given rise to the unification of these systems which can be of benefit for both workloads. Research and industry have reacted and prototypes of hybrid database systems are now appearing. Benchmarks are the standard method for evaluating, comparing and supporting the development of new database systems. Because of the separation of OLTP and OLAP systems, existing benchmarks are only focused on one or the other. With the rise of hybrid database systems, benchmarks to assess these systems will be needed as well. Based on the examination of existing benchmarks, a new benchmark for hybrid database systems is introduced in this book. It is furthermore used to determine the effect of adding OLAP to an OLTP workload and is applied to analyze the impact of typically used optimizations in the historically separate OLTP and OLAP domains in mixed workload scenarios.

Safety and Reliability. Theory and Applications Marko Cepin, Radim Bris, 2017-06-14 Safety and Reliability: Theory and Applications contains the contributions presented at the 27th European Safety and Reliability Conference ESREL 2017 Portorož, Slovenia, June 18-22, 2017. The book covers a wide range of topics including: Accident and Incident modelling; Economic Analysis in Risk Management; Foundational Issues in Risk Assessment and Management; Human Factors and Human Reliability; Maintenance Modeling and Applications; Mathematical Methods in Reliability and Safety; Prognostics and System Health Management; Resilience Engineering; Risk Assessment; Risk Management; Simulation for Safety and Reliability Analysis; Structural Reliability; System Reliability and Uncertainty Analysis. Selected special sessions include contributions on the Marie Skłodowska-Curie innovative training network in structural safety; risk approaches in insurance and finance sectors; dynamic reliability and probabilistic safety assessment; Bayesian and statistical methods; reliability data and testing; organizational factors and safety culture; software reliability and safety; probabilistic methods applied to power systems; socio-technical economic systems; advanced safety assessment methodologies.

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Resilience Assessment And Evaluation Of Computing Systems**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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