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Dependable Computing Ravishankar K. Iyer,Zbigniew T. Kalbarczyk,Nithin M. Nakka,2024-04-18 Dependable Computing Covering dependability from software and hardware perspectives Dependable Computing Design and Assessment looks at both the software and hardware aspects of dependability This book Provides an in depth examination of dependability fault tolerance topics Describes dependability taxonomy and briefly contrasts classical techniques with their modern counterparts or extensions Walks up the system stack from the hardware logic via operating systems up to software applications with respect to how they are hardened for dependability Describes the use of measurement based analysis of computing systems Illustrates technology through real life applications Discusses security attacks and unique dependability requirements for emerging applications e g smart electric power grids and cloud computing Finally using critical societal applications such as autonomous vehicles large scale clouds and engineering solutions for healthcare the book illustrates the emerging challenges faced in making artificial intelligence AI and its applications dependable and trustworthy This book is suitable for those studying in the fields of computer engineering and computer science Professionals who are working within the new reality to ensure dependable computing will find helpful information to support their efforts With the support of practical case studies and use cases from both academia and real world deployments the book provides a journey of developments that include the impact of artificial intelligence and machine learning on this ever growing field This book offers a single compendium that spans the myriad areas in which dependability has been applied providing theoretical concepts and applied knowledge with content that will excite a beginner and rigor that will satisfy an expert Accompanying the book is an online repository of problem sets and solutions as well as slides for instructors that span the chapters of the book **Dependable Computing EDCC-4** Fabrizio Grandoni,2003-08-02 It was with great pleasure that on behalf of the entire organizing committee I welcomed participants to EDCC 4 the Fourth European Dependable Computing Conference held for the rst time in France The fourth issue of EDCC carried on the traditions established bythe previous conferences in this series EDCC 1 was held in Berlin Germany in October 1994 EDCC 2 in Taormina Italy in October 1996 and EDCC 3 in Prague Czech Republic in September 1999 EDCC evolved from a merger of tow other conference series at the moment when the Iron Curtain fell One of these known as the International Conf ence on Fault Tolerant Computing Systems was organized during the period 1982 1991 bythe German Technical Interest Group Fault Tolerant Computing Systems The other series known as the International Conference on Fault Tolerant Systems and Diagnostics was organized during the period 1975 1990 in the former Czechoslovakia Poland Bulgaria and the former GDR The c position of the EDCC steering committee and the organizing committees of the successive issues of the conference have mirrored the East West uni cation ch acter of the conference series The EDCC conference is becoming a unique meeting point for researchers and practitioners from all over the world in the eld of Dependable Systems It is organized bythe SEE Working Group Dependable Computing in France the

GI ITG GMA Technical Committee on Dependabilityand Fault Tolerance in Germany and the AICA Working Group Dependability of Computer Systems in Italy Furthermore committees of several global professional organizations such as IEEE and IFIP support the conference *Dependable Computing Systems* Hassan B. Diab,Albert Y. Zomaya,2005-10-05 A team of recognized experts leads the way to dependable computing systems With computers and networks pervading every aspect of daily life there is an ever growing demand for dependability In this unique resource researchers and organizations will find the tools needed to identify and engage state of the art approaches used for the specification design and assessment of dependable computer systems The first part of the book addresses models and paradigms of dependable computing and the second part deals with enabling technologies and applications Tough issues in creating dependable computing systems are also tackled including Verification techniques Model based evaluation Adjudication and data fusion Robust communications primitives Fault tolerance Middleware Grid security Dependability in IBM mainframes Embedded software Real time systems Each chapter of this contributed work has been authored by a recognized expert This is an excellent textbook for graduate and advanced undergraduate students in electrical engineering computer engineering and computer science as well as a must have reference that will help engineers programmers and technologists develop systems that are secure and reliable Dependable Computing--EDCC. ,2002 **Dependable Computing for Critical Applications** Algirdas Avizienis,Jean-Claude Laprie,2012-12-06 The International Working Conference on Dependable Computing for Critical Applications was the first conference organized by IFIP Working Group 10 4 Dependable Computing and Fault Tolerance in cooperation with the Technical Committee on Fault Tolerant Computing of the IEEE Computer Society and the Technical Committee 7 on Systems Reliability Safety and Security of EWlCS The rationale for the Working Conference is best expressed by the aims of WG 10 4 Increasingly individuals and organizations are developing or procuring sophisticated computing systems on whose services they need to place great reliance In differing circumstances the focus will be on differing properties of such services e g continuity performance real time response ability to avoid catastrophic failures prevention of deliberate privacy intrusions The notion of dependability defined as that property of a computing system which allows reliance to be justifiably placed on the service it delivers enables these various concerns to be subsumed within a single conceptual framework Dependability thus includes as special cases such attributes as reliability availability safety security The Working Group is aimed at identifying and integrating approaches methods and techniques for specifying designing building assessing validating operating and maintaining computer systems which should exhibit some or all of these attributes The concept of WG 10 4 was formulated during the IFIP Working Conference on Reliable Computing and Fault Tolerance on September 27 29 1979 in London England held in conjunction with the Europ IFIP 79 Conference Profs A Avi ienis UCLA Los Angeles USA and A **System Performance Evaluation** Erol Gelenbe,2000-03-24 Throughout successive generations of information technology the importance of the performance evaluation of software computer

architectures and computer networks endures For example the performance issues of transaction processing systems and redundant arrays of independent disks replace the virtual memory and input output problems of the 70s ATM performance issues supercede those associated with electronic telephony of the 70s As performance issues evolve with the technologies so must our approach to evaluation In System Performance Evaluation Methodologies and Applications top academic and industrial experts review the major issues now faced in this arena In a series of structured focused chapters they present the state of the art in performance methodologies and applications They address developments in analytical modeling and its interaction with detailed analysis of measurement data They also discuss performance evaluation methodologies for large scale software systems in general and in the context of critical applications such as nuclear reactor control and air transportation systems With its particular emphasis on network performance for wireless networks the Internet and ATM networking System Performance Evaluation becomes the ideal vehicle for professionals in computer architecture networking and software engineering to stay up to date and proficient in this essential aspect of information technology **Computer Safety, Reliability, and Security** Erwin Schoitsch,2010-08-11 Computers and microprocessors are indispensable in modern technical systems their deployment spanning the domains automotive railway aerospace and transportation security energy supply telecommunication critical infrastructures and process ind tries They perform tasks that a few decades ago were very difficult if not impossible As they perform these tasks with increasing efficiency more and more tasks are shifted from hardware to software which means that the dependability of computer systems becomes crucial for the safety security and reliability of technical systems With the so called embedded systems becoming more and more intelligent networked and co operating with each other with humans and the environment computers have invaded all aspects of daily life New paradigms have arisen like ubiquitous computing systems of systems energy and resource awareness enormous complexity issues and the like requiring a more holistic systems view as well th So after 31 years of SAFECOMP the emphasis of the 29 event is on critical bedded systems which are almost omnipresent Their impact on our lives risks and challenges are often not well understood underestimated or exaggerated The p mary issue is to cope with complexity new failure modes and resource management due to shrinking feature size multi core systems and management of multiple variants while maintaining dependability properties and robustness *Dependable Computing for Critical Applications 4* Flaviu Cristian,Gerard LeLann,Teresa Lunt,1995-03-31 This volume contains the articles presented at the Fourth InternationallFIP Working Conference on Dependable Computing for Critical Applications held in San Diego California on January 4 6 1994 In keeping with the previous three conferences held in August 1989 at Santa Barbara USA in February 1991 at Tucson USA and in September 1992 at Mondello Italy the conference was concerned with an important basic question can we rely on computer systems for critical applications This conference like its predecessors addressed various aspects of 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 of its broad scope a main goal was to contribute to a unified understanding and integration of these concepts The Program Committee selected 21 papers for presentation from a total of 95 submissions at a September meeting in Menlo Park California The resulting program represents a broad spectrum of interests with papers from universities corporations and government agencies in eight countries The selection process was greatly facilitated by the diligent work of the program committee members for which we are most grateful As a Working Conference the program was designed to promote the exchange of ideas by extensive discussions All paper sessions ended with a 30 minute discussion period on the topics covered by the session In addition three panel sessions have been organizcd   Certifications of Critical Systems – The CECRIS Experience Andrea Bondavalli,Francesco Brancati,2022-09-01 In recent years a considerable amount of effort has been devoted both in industry and academia to the development validation and verification of critical systems i e those systems whose malfunctions or failures reach a critical level both in terms of risks to human life as well as having a large economic impact Certifications of Critical Systems The CECRIS Experience documents the main insights on Cost Effective Verification and Validation processes that were gained during work in the European Research Project CECRIS acronym for Certification of Critical Systems The objective of the research was to tackle the challenges of certification by focusing on those aspects that turn out to be more difficult important for current and future critical systems industry the effective use of methodologies processes and tools The CECRIS project took a step forward in the growing field of development verification and validation and certification of critical systems It focused on the more difficult important aspects of critical system development verification and validation and certification process Starting from both the scientific and industrial state of the art methodologies for system development and the impact of their usage on the verification and validation and certification of critical systems the project aimed at developing strategies and techniques supported by automatic or semi automatic tools and methods for these activities setting guidelines to support engineers during the planning of the verification and validation phases   **Fault Injection Techniques and Tools for Embedded Systems Reliability Evaluation** Alfredo Benso,Paolo Prinetto,2005-12-15 Fault Injection Techniques and Tools for Embedded Systems Reliability Evaluation intends to be a comprehensive guide to Fault Injection techniques used to evaluate the dependability of a digital system The description and the critical analysis of different Fault Injection techniques and tools will be authored by key scientists in the field of system dependability and fault tolerance   *Information-Based Manufacturing* Michael J. Shaw,2012-12-06 Because of their mutually influencing interactions information systems and modern manufacturing systems are intertwined They have been so integrated that information systems have become an embedded and critical component of any effective manufacturing system The impact of the increasing focus on information permeates throughout the manufacturing life cycle from product conceptualization design process planning all the way to production order fulfilment and customer services For these reasons it is critical that we study information based manufacturing in its entirety crossing the traditional functional boundaries and

building as much synergy between Information Systems IS Information Technology IT and manufacturing as possible This is the motivation for this book and to this end the purpose of this book is threefold to establish an up to date interdisciplinary research framework for information based manufacturing that builds on the research foundation from IS and IT and manufacturing research to develop a forward looking research agenda for information based manufacturing for identifying future directions for research and applications and to foster a joint academic and industrial research agenda in information systems and manufacturing by identifying the greatest synergy possible between academic research and industrial practices

Performance, Reliability, and Availability Evaluation of Computational Systems, Volume 2 Paulo Romero Martins Maciel,2023-03-06 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 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   *Great Principles of Computing* Peter J. Denning,Craig H. Martell,2015-01-16 A new framework for understanding computing a coherent set of principles spanning technologies domains algorithms architectures and designs Computing is usually viewed as a technology field that advances at the breakneck speed of Moore s Law If we turn away even for a moment we might miss a game changing technological breakthrough or an earthshaking theoretical development This book takes a different perspective presenting computing as a science governed by fundamental principles that span all technologies Computer science is a science of information processes We need a new language to describe the science and in

this book Peter Denning and Craig Martell offer the great principles framework as just such a language This is a book about the whole of computing its algorithms architectures and designs Denning and Martell divide the great principles of computing into six categories communication computation coordination recollection evaluation and design They begin with an introduction to computing its history its many interactions with other fields its domains of practice and the structure of the great principles framework They go on to examine the great principles in different areas information machines programming computation memory parallelism queueing and design Finally they apply the great principles to networking the Internet in particular Great Principles of Computing will be essential reading for professionals in science and engineering fields with a computational branch for practitioners in computing who want overviews of less familiar areas of computer science and for non computer science majors who want an accessible entry way to the field   *Software Quality Assurance* Ivan Mistrik,Richard M Soley,Nour Ali,John Grundy,Bedir Tekinerdogan,2015-10-12 Software Quality Assurance in Large Scale and Complex Software intensive Systems presents novel and high quality research related approaches that relate the quality of software architecture to system requirements system architecture and enterprise architecture or software testing Modern software has become complex and adaptable due to the emergence of globalization and new software technologies devices and networks These changes challenge both traditional software quality assurance techniques and software engineers to ensure software quality when building today and tomorrow s adaptive context sensitive and highly diverse applications This edited volume presents state of the art techniques methodologies tools best practices and guidelines for software quality assurance and offers guidance for future software engineering research and practice Each contributed chapter considers the practical application of the topic through case studies experiments empirical validation or systematic comparisons with other approaches already in practice Topics of interest include but are not limited to quality attributes of system software architectures aligning enterprise system and software architecture from the point of view of total quality design decisions and their influence on the quality of system software architecture methods and processes for evaluating architecture quality quality assessment of legacy systems and third party applications lessons learned and empirical validation of theories and frameworks on architectural quality empirical validation and testing for assessing architecture quality Focused on quality assurance at all levels of software design and development Covers domain specific software quality assurance issues e g for cloud mobile security context sensitive mash up and autonomic systems Explains likely trade offs from design decisions in the context of complex software system engineering and quality assurance Includes practical case studies of software quality assurance for complex adaptive and context critical systems   Methods, Models and Tools for Fault Tolerance Michael Butler,Cliff B. Jones,Alexander Romanovsky,Elena Troubitsyna,2009-03-26 The growing complexity of modern software systems makes it increasingly difficult to ensure the overall dependability of software intensive systems Mastering system complexity requires design techniques that support clear thinking and rigorous

validation and verification Formal design methods together with fault tolerant design techniques help to achieve this Therefore there is a clear need for methods that enable rigorous modeling and the development of complex fault tolerant systems This book is an outcome of the workshop on Methods Models and Tools for Fault Tolerance MeMoT 2007 held in conjunction with the 6th international conference on Integrated Formal Methods iFM 2007 in Oxford UK in July 2007 The authors of the best workshop papers were asked to enhance and expand their work and a number of well established researchers working in the area contributed invited chapters in addition From the 15 refereed and revised papers presented 12 are versions reworked from the workshop and 3 papers are invited The articles are organized in four topical sections on formal reasoning about fault tolerant systems and protocols fault tolerance modelling in B fault tolerance in system development process and fault tolerant applications   Computing in Intelligent Transportation Systems Archana Naganathan,Niresh Jayarajan,Mamun Bin Ibne Reaz,2023-08-23 This book presents various application areas of computing in the automotive sector The authors explain how computing enhances the performance of vehicles covering the applications of computing in smart transportation and the future scope The authors focus on computing for vehicle safety in conjunction with the latest technologies in Internet of Things IoT The book provides a holistic approach to computing in an inter disciplinary and unified view Topics covered include driverless automated navigation systems smart transportation self learning systems in vehicle intelligent systems and off road vehicle diagnosis and maintenance among others The authors include simulated examples and case studies for better understanding of the technologies and applications The book is intended for a wide range of readers from students to researchers and industry practitioners and is a useful resource for those planning to pursue research in the area of computing and autonomous driving vehicles   *Dependability: Basic Concepts and Terminology* Jean-Claude Laprie,2013-12-28   **Designing Software-Intensive Systems: Methods and Principles** Tiako, Pierre F.,2008-07-31 This book addresses the complex issues associated with software engineering environment capabilities for designing real time embedded software systems Provided by publisher   **Embedded Systems** Kiyofumi Tanaka,2012-03-02 Nowadays embedded systems the computer systems that are embedded in various kinds of devices and play an important role of specific control functions have permitted various aspects of industry Therefore we can hardly discuss our life and society from now onwards without referring to embedded systems For wide ranging embedded systems to continue their growth a number of high quality fundamental and applied researches are indispensable This book contains 19 excellent chapters and addresses a wide spectrum of research topics on embedded systems including basic researches theoretical studies and practical work Embedded systems can be made only after fusing miscellaneous technologies together Various technologies condensed in this book will be helpful to researchers and engineers around the world   **Scientific and Technical Aerospace Reports** ,1995

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