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Resilient Computing: when Dependability meets Cybersecurity

Paulo Esteves-Verissimo, Professor,
Computer Science and Engineering,
University of Luxembourg
Wednesday, October 16, 12:00 - 13:00
Building 9, Level 2, Hall 2, Room 2325



Resilient Computing Systems

Tom Anderson



Resilient Computing Systems:

Resilient Computing Systems Tom Anderson,1985

Resilient Computing Systems T. Anderson,1985-01

Resilient Computing Systems T. Anderson,1997-05

Software Design for Resilient Computer Systems Igor

Schagaev,Kaegi Thomas,2016-02-13 This book addresses the question of how system software should be designed to account for faults and which fault tolerance features it should provide for highest reliability The authors first show how the system software interacts with the hardware to tolerate faults They analyze and further develop the theory of fault tolerance to understand the different ways to increase the reliability of a system with special attention on the role of system software in this process They further develop the general algorithm of fault tolerance GAFT with its three main processes hardware checking preparation for recovery and the recovery procedure For each of the three processes they analyze the requirements and properties theoretically and give possible implementation scenarios and system software support required Based on the theoretical results the authors derive an Oberon based programming language with direct support of the three processes of GAFT In the last part of this book they introduce a simulator using it as a proof of concept implementation of a novel fault tolerant processor architecture ERRIC and its newly developed runtime system feature wise and performance wise The content applies to industries such as military aviation intensive health care industrial control space exploration etc

Resilient Computer System Design Victor Castano,Igor Schagaev,2015-04-15 This book presents a paradigm for designing new generation resilient and evolving computer systems including their key concepts elements of supportive theory methods of analysis and synthesis of ICT with new properties of evolving functioning as well as implementation schemes and their prototyping The book explains why new ICT applications require a complete redesign of computer systems to address challenges of extreme reliability high performance and power efficiency The authors present a comprehensive treatment for designing the next generation of computers especially addressing safety critical autonomous real time military banking and wearable health care systems

Architecting Resilient Computing Systems Miruna Stoicescu,2013

Evolution during service life is mandatory particularly for long lived systems Dependable systems which continuously deliver trustworthy services must evolve to accommodate changes e g new fault tolerance requirements or variations in available resources The addition of this evolutionary dimension to dependability leads to the notion of resilient computing Among the various aspects of resilience we focus on adaptivity Dependability relies on fault tolerant computing at runtime applications being augmented with fault tolerance mechanisms FTMs As such on line adaptation of FTMs is a key challenge towards resilience In related work on line adaption of FTMs is most often performed in a preprogrammed manner or consists in tuning some parameters Besides FTMs are replaced monolithically All the envisaged FTMs must be known at design time and deployed from the beginning However dynamics occurs along multiple dimensions and developing a system for the worst case scenario is impossible According to runtime observations new FTMs can be developed off line but integrated on line We

denote this ability as agile adaption as opposed to the preprogrammed one In this thesis we present an approach for developing flexible fault tolerant systems in which FTMs can be adapted at runtime in an agile manner through fine grained modifications for minimizing impact on the initial architecture We first propose a classification of a set of existing FTMs based on criteria such as fault model application characteristics and necessary resources Next we analyze these FTMs and extract a generic execution scheme which pinpoints the common parts and the variable features between them Then we demonstrate the use of state of the art tools and concepts from the field of software engineering such as component based software engineering and reflective component based middleware for developing a library of fine grained adaptive FTMs We evaluate the agility of the approach and illustrate its usability throughout two examples of integration of the library first in a design driven development process for applications in pervasive computing and second in a toolkit for developing applications for WSNs

Software Design for Resilient Computer Systems Igor Schagaev,Eugene Zouev,Kaegi Thomas,2020 This book addresses the question of how system software should be designed to account for faults and which fault tolerance features it should provide for highest reliability With this second edition of Software Design for Resilient Computer Systems the book is thoroughly updated to contain the newest advice regarding software resilience With additional chapters on computer system performance and system resilience as well as online resources the new edition is ideal for researchers and industry professionals The authors first show how the system software interacts with the hardware to tolerate faults They analyze and further develop the theory of fault tolerance to understand the different ways to increase the reliability of a system with special attention on the role of system software in this process They further develop the general algorithm of fault tolerance GAFT with its three main processes hardware checking preparation for recovery and the recovery procedure For each of the three processes they analyze the requirements and properties theoretically and give possible implementation scenarios and system software support required Based on the theoretical results the authors derive an Oberon based programming language with direct support of the three processes of GAFT In the last part of this book they introduce a simulator using it as a proof of concept implementation of a novel fault tolerant processor architecture ERRIC and its newly developed runtime system feature wise and performance wise Due to the wide reaching nature of the content this book applies to a host of industries and research areas including military aviation intensive health care industrial control and space exploration

Wireless Artificial Intelligent Computing Systems and Applications Zhipeng Cai,Yongxin Zhu,Yonghao Wang,Meikang Qiu,2025-06-25 The 3 volume set LNCS 15686 15688 constitutes the proceedings of the 19th International Conference on Wireless Artificial Intelligent Computing Systems and Applications WASA 2025 which took place in Tokyo Japan during June 24 26 2025 The 70 full papers and 34 short papers included in the proceedings were carefully reviewed and selected from 282 submissions The proceedings also contain 10 papers from the AICom2 symposium WASA is a prestigious annual gathering that serves as a global platform for researchers academics and industry professionals to explore

and exchange cuttingedge ideas research findings and innovative solutions at the dynamic intersection of wireless technologies and artificial intelligence AI computing systems

Adaptive, Dynamic, and Resilient Systems Nirranjan Suri,Giacomo Cabri,2014-06-23 As the complexity of today s networked computer systems grows they become increasingly difficult to understand predict and control Addressing these challenges requires new approaches to building these systems Adaptive Dynamic and Resilient Systems supplies readers with various perspectives of the critical infrastructure that systems of netwo

Architecture of Computing Systems - ARCS 2012 Andreas Herkersdorf,Kay Römer,Uwe Brinkschulte,2012-02-11 This book constitutes the refereed proceedings of the 25th International Conference on Architecture of Computing Systems ARCS 2012 held in Munich Germany in February March 2012 The 20 revised full papers presented in 7 technical sessions were carefully reviewed and selected from 65 submissions The papers are organized in topical sections on robustness and fault tolerance power aware processing parallel processing processor cores optimization and communication and memory

Reliability of Computer Systems and Networks Martin L. Shooman,2003-03-25 With computers becoming embedded as controllers in everything from network servers to the routing of subway schedules to NASA missions there is a critical need to ensure that systems continue to function even when a component fails In this book bestselling author Martin Shooman draws on his expertise in reliability engineering and software engineering to provide a complete and authoritative look at fault tolerant computing He clearly explains all fundamentals including how to use redundant elements in system design to ensure the reliability of computer systems and networks Market Systems and Networking Engineers Computer Programmers IT Professionals

Predictably Dependable Computing Systems Brian Randell,Jean-Claude Laprie,Hermann Kopetz,Bev Littlewood,2013-11-11

Fehlertolerierende Rechensysteme / Fault-tolerant Computing Systems Winfried Görke,Holger Sörensen,2012-12-06 Dieses Buch enth lt die Beitr ge der 4 GI ITG GMA Fachtagung ber Fehlertolerierende Rechensysteme die im September 1989 in einer Reihe von Tagungen in M nchen 1982 Bonn 1984 sowie Bremerhaven 1987 veranstaltet wurde Die 31 Beitr ge darunter 4 eingeladene sind teils in deutscher berwiegend aber in englischer Sprache verfa t Insgesamt wird durch diese Beitr ge die Entwicklung der Konzeption und Implementierung fehlertoleranter Systeme in den letzten zwei Jahren vor allem in Europa dokumentiert S mtliche Beitr ge berichten ber neue Forschungs oder Entwicklungsergebnisse

Principles of Computer System Design Jerome H. Saltzer,M. Frans Kaashoek,2009-05-21 Principles of Computer System Design is the first textbook to take a principles based approach to the computer system design It identifies examines and illustrates fundamental concepts in computer system design that are common across operating systems networks database systems distributed systems programming languages software engineering security fault tolerance and architecture Through carefully analyzed case studies from each of these disciplines it demonstrates how to apply these concepts to tackle practical system design problems To support the focus on design the text identifies and explains abstractions that have proven successful in practice such as remote procedure call client service organization file

systems data integrity consistency and authenticated messages Most computer systems are built using a handful of such abstractions The text describes how these abstractions are implemented demonstrates how they are used in different systems and prepares the reader to apply them in future designs The book is recommended for junior and senior undergraduate students in Operating Systems Distributed Systems Distributed Operating Systems and or Computer Systems Design courses and professional computer systems designers Concepts of computer system design guided by fundamental principles Cross cutting approach that identifies abstractions common to networking operating systems transaction systems distributed systems architecture and software engineering Case studies that make the abstractions real naming DNS and the URL file systems the UNIX file system clients and services NFS virtualization virtual machines scheduling disk arms security TLS Numerous pseudocode fragments that provide concrete examples of abstract concepts Extensive support The authors and MIT OpenCourseWare provide on line free of charge open educational resources including additional chapters course syllabi board layouts and slides lecture videos and an archive of lecture schedules class assignments and design projects

Big Data Technologies for Monitoring of Computer Security: A Case Study of the Russian Federation Sergei Petrenko,2018-05-17 This timely book offers rare insight into the field of cybersecurity in Russia a significant player with regard to cyber attacks and cyber war Big Data Technologies for Monitoring of Computer Security presents possible solutions to the relatively new scientific technical problem of developing an early warning cybersecurity system for critically important governmental information assets Using the work being done in Russia on new information security systems as a case study the book shares valuable insights gained during the process of designing and constructing open segment prototypes of this system Most books on cybersecurity focus solely on the technical aspects But Big Data Technologies for Monitoring of Computer Security demonstrates that military and political considerations should be included as well With a broad market including architects and research engineers in the field of information security as well as managers of corporate and state structures including Chief Information Officers of domestic automation services CIO and chief information security officers CISO this book can also be used as a case study in university courses

Computer Security - ESORICS 2022 Vijayalakshmi Atluri,Roberto Di Pietro,Christian D. Jensen,Weizhi Meng,2022-09-24 The three volume set LNCS 13554 13555 13556 constitutes the proceedings of the 27th European Symposium on Research in Computer Security ESORICS 2022 which took place in September 2022 The conference took place in Copenhagen Denmark in a hybrid mode The 104 full papers and 6 poster papers presented in these proceedings were carefully reviewed and selected from 562 submissions They were organized in topical sections as follows Part I Blockchain security privacy crypto attacks sidechannels Part II Anonymity cloud security access control authentication digital signatures IoT security applications Part III Formal analysis Web security hardware security multiparty computation ML techniques cyber physical systems security network and software security posters

The Management of Projects, Systems, Internet and Risks Andreas Sofroniou,2009-04-28

The Management Of Projects Systems Internet And Risks ISBN 0952795698 Year 2002 The Programme Project Management methods described in this book provide a generic structure for the development of IT systems Project Management techniques and how to plan projects Useful to Programme and Project Managers Analysts Designers Programmers Executives Academics and Students *Rugged Embedded Systems* Augusto Vega, Pradip Bose, Alper Buyuktosunoglu, 2016-12-02 *Rugged Embedded Systems* Computing in Harsh Environments describes how to design reliable embedded systems for harsh environments including architectural approaches cross stack hardware software techniques and emerging challenges and opportunities A harsh environment presents inherent characteristics such as extreme temperature and radiation levels very low power and energy budgets strict fault tolerance and security constraints etc that challenge the computer system in its design and operation To guarantee proper execution correct safe and low power in such scenarios this contributed work discusses multiple layers that involve firmware operating systems and applications as well as power management units and communication interfaces This book also incorporates use cases in the domains of unmanned vehicles advanced cars and micro aerial robots and space exploration as examples of computing designs for harsh environments Provides a deep understanding of embedded systems for harsh environments by experts involved in state of the art autonomous vehicle related projects Covers the most important challenges fault tolerance power efficiency and cost effectiveness faced when developing rugged embedded systems Includes case studies exploring embedded computing for autonomous vehicle systems advanced cars and micro aerial robots and space exploration *Computer Telephony Encyclopedia* Richard Grigonis, 2000-01-08 If you want to grasp the full length and breadth of the rapidly developing computer telephony field this book is the place to start Author Richard Grigonis thoroughly explains even the most abstruse ideas in a concise manner that is aimed at all kinds of readers students business executives telecom managers call center supervisors or entrep Fault Tolerance Peter A. Lee, Thomas Anderson, 2012-12-06 The production of a new version of any book is a daunting task as many authors will recognise In the field of computer science the task is made even more daunting by the speed with which the subject and its supporting technology move forward Since the publication of the first edition of this book in 1981 much research has been conducted and many papers have been written on the subject of fault tolerance Our aim then was to present for the first time the principles of fault tolerance together with current practice to illustrate those principles We believe that the principles have so far stood the test of time and are as appropriate today as they were in 1981 Much work on the practical applications of fault tolerance has been undertaken and techniques have been developed for ever more complex situations such as those required for distributed systems Nevertheless the basic principles remain the same

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