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# **DEPENDABLE COMPUTING SYSTEMS**

**PARADIGMS, PERFORMANCE ISSUES, AND APPLICATIONS**

**EDITED BY**

**HASSAN B. DIAB  
ALBERT Y. ZOMAYA**

# Responsive Computer Systems Dependable Computing And Fault Toleran Systems Vol 7

**Hermann Kopetz, Yoshiaki Kakuda**



## **Responsive Computer Systems Dependable Computing And Fault Tolerant Systems Vol 7:**

**Responsive Computer Systems** Hermann Kopetz, Yoshiaki Kakuda, 2012-12-06 For the second time the International Workshop on Responsive Computer Systems has brought together a group of international experts from the fields of real time computing distributed computing and fault tolerant systems The two day workshop met at the splendid facilities at the KDD Research and Development Laboratories at Kamifukuoka Saitama in Japan on October 1 and 2 1992 The program included a keynote address a panel discussion and in addition to the opening and closing session six sessions of submitted presentations The keynote address The Concepts and Technologies of Dependable and Real time Computer Systems for Shinkansen Train Control covered the architecture of the computer control system behind a very responsive i e timely and reliable transport system the Shinkansen Train It has been fascinating to listen to the operational experience with a large fault tolerant computer application What are the Key Paradigms in the Integration of Timeliness and Reliability was the topic of the lively panel discussion Once again the pros and cons of the time triggered versus the event triggered paradigm in the design of a real time systems were discussed The eighteen submitted presentations covered diverse topics about important issues in the design of responsive systems and a session on progress reports about leading edge research projects Lively discussions characterized both days of the meeting This volume contains the revised presentations that incorporate some of the discussions that occurred during the meeting

**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

**Fundamentals of Computation Theory** Horst Reichel, 1995-08-16 This book presents the proceedings of the 10th International Conference on Fundamentals of Computation Theory FCT 95 held in Dresden Germany in August 1995 The volume contains five invited lectures and 32 revised papers carefully selected for presentation at FCT 95 A broad spectrum of theoretical computer science is covered among topics addressed are algorithms and data structures automata and formal languages categories and types computability and complexity computational logics computational geometry systems specification learning theory parallelism and concurrency rewriting and high level replacement systems and semantics

**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 EWICS 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 **Formal Methods in Programming and Their Applications** Dines Bjorner, Manfred Broy, Igor V. Pottosin, 1993-10-05 This volume comprises the papers selected for presentation at the international conference on Formal Methods in Programming and Their Applications held in Academgorodok Novosibirsk Russia June July 1993 The conference was organized by the Institute of Informatics Systems of the Siberian Division of the Russian Academy of Sciences and was the first forum organized by the Institute which was entirely dedicated to formal methods The main scientific tracks of the conference were centered around formal methods of program development and program construction The papers in the book are grouped into the following parts formal semantics methods algebraic specification methods semantic program analysis and abstract interpretation semantics of parallelism logic of programs software specification and verification transformational development and program synthesis **Software Performability: From Concepts to Applications** Ann T. Tai, John F. Meyer, Algirdas Avizienis, 2012-12-06 Computers are currently used in a variety of critical applications including systems for nuclear reactor control flight control both aircraft and spacecraft and air traffic control Moreover experience has shown that the dependability of such systems is particularly sensitive to that of its software components both the system software of the embedded computers and the application software they support Software Performability From Concepts to Applications addresses the construction and solution of analytic performability models for critical application software The book includes a review of general performability concepts along with notions which are peculiar to software performability Since fault tolerance is widely recognized as a viable means for improving the dependability of computer system beyond what can be achieved by fault prevention the examples considered are fault tolerant software systems that incorporate particular methods of design diversity and fault recovery Software Performability

From Concepts to Applications will be of direct benefit to both practitioners and researchers in the area of performance and dependability evaluation fault tolerant computing and dependable systems for critical applications For practitioners it supplies a basis for defining combined performance dependability criteria in the form of objective functions that can be used to enhance the performability performance dependability of existing software designs For those with research interests in model based evaluation the book provides an analytic framework and a variety of performability modeling examples in an application context of recognized importance The material contained in this book will both stimulate future research on related topics and for teaching purposes serve as a reference text in courses on computer system evaluation fault tolerant computing and dependable high performance computer systems

**Dependable Computing for Critical Applications 6**  
Mario Dal Cin, Catherine Meadows, 1998 Fourteen papers from the 1997 conference address the dependability of computer systems to perform critical tasks The main aspects examined are fault detection mechanisms dependability evaluation real time and distributed systems verification case studies and dependability and security evaluation The volume also presents five position papers from a panel discussion on extending QoS to include performance dependability and security No index Annotation copyrighted by Book News Inc Portland OR

**Using Event-B for Critical Device Software Systems** Neeraj Kumar Singh, 2013-06-19 Defining a new development life cycle methodology together with a set of associated techniques and tools to develop highly critical systems using formal techniques this book adopts a rigorous safety assessment approach explored via several layers from requirements analysis to automatic source code generation This is assessed and evaluated via a standard case study the cardiac pacemaker Additionally a formalisation of an Electrocardiogram ECG is used to identify anomalies in order to improve existing medical protocols This allows the key issue that formal methods are not currently integrated into established critical systems development processes to be discussed in a highly effective and informative way Using Event B for Critical Device Software Systems serves as a valuable resource for researchers and students of formal methods The assessment of critical systems development is applicable to all industries but engineers and physicians from the health domain will find the cardiac pacemaker case study of particular value

**Foundations of Dependable Computing**  
Gary M. Koob, Clifford G. Lau, 2007-11-23 Foundations of Dependable Computing Paradigms for Dependable Applications presents a variety of specific approaches to achieving dependability at the application level Driven by the higher level fault models of Models and Frameworks for Dependable Systems and built on the lower level abstractions implemented in a third companion book subtitled System Implementation these approaches demonstrate how dependability may be tuned to the requirements of an application the fault environment and the characteristics of the target platform Three classes of paradigms are considered protocol based paradigms for distributed applications algorithm based paradigms for parallel applications and approaches to exploiting application semantics in embedded real time control systems The companion volume subtitled Models and Frameworks for Dependable Systems presents two comprehensive frameworks for reasoning

about system dependability thereby establishing a context for understanding the roles played by specific approaches presented in this book's two companion volumes. It then explores the range of models and analysis methods necessary to design, validate, and analyze dependable systems. Another companion book published by Kluwer, subtitled *System Implementation*, explores the system infrastructure needed to support the various paradigms of *Paradigms for Dependable Applications*. Approaches to implementing support mechanisms and to incorporating additional appropriate levels of fault detection and fault tolerance at the processor, network, and operating system level are presented. A primary concern at these levels is balancing cost and performance against coverage and overall dependability. As these chapters demonstrate, low overhead practical solutions are attainable and not necessarily incompatible with performance considerations. The section on innovative compiler support in particular demonstrates how the benefits of application specificity may be obtained while reducing hardware cost and run time overhead.

**FTCS-24**, 1994. [Real Time Computing](#) Alexander D. Stoyenko, 2013-12-14. NATO's Division of Scientific and Environmental Affairs sponsored this Advanced Study Institute because it was felt to be timely to cover this important and challenging subject for the first time in the framework of NATO's ASI programme. The significance of real time systems in everyone's life is rapidly growing. The vast spectrum of these systems can be characterised by just a few examples of increasing complexity: controllers in washing machines, air traffic control systems, control and safety systems of nuclear power plants, and finally future military systems like the Strategic Defense Initiative (SDI). The importance of such systems for the well-being of people requires considerable efforts in research and development of highly reliable real time systems. Furthermore, the competitiveness and prosperity of entire nations now depend on the early application and efficient utilisation of computer-integrated manufacturing systems (CIM) of which real time systems are an essential and decisive part. Owing to its key significance in computerised defence systems, real time computing has also a special importance for the Alliance. The early research and development activities in this field in the 1960s and 1970s aimed towards improving the then unsatisfactory software situation. Thus, the first high-level real time languages were defined and developed: RTL 2, Coral 66, Procol, LTR, and PEARL. In close connection with these language developments and with the utilisation of special purpose process control peripherals, the research on real time operating systems advanced considerably.

[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

**Fifth International Conference on Real-Time Computing Systems and Applications**, 1998 Contains 39 papers from the August 1998 conference Focusing particularly on computing and telecommunication interaction the scope of the material includes multimedia computing fault tolerant computing responsive and mission critical systems and embedded systems and applications Annotation copyrighted by Book News Inc Portland OR

**Directory of Published Proceedings**, 1995

First International Symposium on Object-Oriented Real-Time Distributed Computing (ISORC '98), 1998 Aimed at researchers professors practitioners students and other professionals this work looks at object oriented real time distributed computing

Algebraic Methodology and Software Technology, 1998

**Dependable Computing for Critical Applications 2** John F. Meyer, Richard D. Schlichting, 2012-12-06 This volume contains the papers presented at the Second International Working Conference on Dependable Computing for Critical Applications sponsored by IFIP Working Group IOA and held in Tucson Arizona on February 18 20 1991 In keeping with the first such conference on this topic which took place at the University of California Santa Barbara in 1989 this meeting was likewise concerned with an important basic question Can we rely on Computers In more precise terms it addressed various aspects of computer system dependability a broad concept defined as the trustworthiness of computer service such that reliance can justifiably be placed on this service Given that this term includes attributes such as reliability availability safety and security it is our hope that these papers will contribute to further integration of these ideas in the context of critical applications The program consisted of 20 papers and three panel sessions The papers were selected from a total of 61 submissions at a November 1990 meeting of the Program Committee in Ann Arbor Michigan We were very fortunate to have a broad spectrum of interests represented with papers in the final program coming from seven different countries representing work at universities corporations and government agencies The process was greatly facilitated by the diligent work of the Program Committee and the quality of reviews provided by outside referees In addition to the paper presentations there were three panel sessions organized to examine particular topics in detail

**2nd IEEE International Symposium on Object-Oriented Real-Time Distributed Computing (ISORC'99)**, 1999 Presents papers from a May 1999 symposium in sections on analysis and design middleware and operating systems applications tools and services modeling and evaluation object oriented techniques for resource constrained architectures QoS assurance software architecture fault tolerance and re

**Proceedings of the 1995 IEEE IECON: Signal processing and control, Robotics vision and sensors, Emerging technologies, and Factory automation**, 1995

**Proceedings**, 1995

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