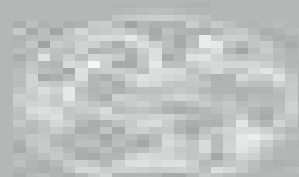


# Dependable Computing and Fault-Tolerant Systems Vol. 8

C. E. Landwehr, B. Randell,  
L. Simoncini, eds.

## Dependable Computing for Critical Applications 3



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# Dependable Computing For Critical Applications 3

**Akinori Yonezawa, Satoshi Matsuoka**



### **Dependable Computing For Critical Applications 3:**

**Dependable Computing for Critical Applications 3** Carl E. Landwehr, Brian Randell, Luca Simoncini, 2013-11-20 This volume contains the papers presented at the Third IFIP International Working Conference on Dependable Computing for Critical Applications sponsored by IFIP Working Group 10.4 and held in Mondello Sicily Italy on September 14-16 1992. System developers increasingly apply computers where they can affect the safety and security of people and equipment. The Third IFIP International Working Conference on Dependable Computing for Critical Applications like its predecessors addressed various aspects of computer system 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 the scope of the conference was so broad we hope the presentations and discussions will contribute to the integration of these concepts so that future computer based systems will indeed be more dependable. The Program Committee selected 18 papers for presentation from a total of 74 submissions at a May meeting in Newcastle upon Tyne UK. The resulting program represented a broad spectrum of interests with papers from universities corporations and government agencies in eight countries. Much diligent work by the Program Committee and the quality of reviews from more than a hundred external referees from around the world for which we are most grateful significantly eased the production of this technical program.

**Dependable Computing for Critical Applications 3** Carl E. Landwehr, Brian Randell, Luca Simoncini, 1993-01-01 This book contains the papers presented and discussed at the 3rd IFIP Working Conference on Dependable Computing for Critical Applications. Based on feedback at that meeting these papers were then revised and updated prior to inclusion in this volume. The topics addressed span the spectrum of dependable computing from design methods for distributed fault tolerant systems to formal and experimental validation techniques. The unique focus of this forum on critical applications is what distinguishes many of these papers from those found elsewhere. This book is of interest to individuals involved in the development of computing systems where dependability attributes such as reliability safety and security are a major concern.

**Dependable Computing for Critical Applications 4** Flaviu Cristian, Gerard LeLann, Teresa Lunt, 2012-12-06 This volume contains the articles presented at the Fourth International IFIP 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 organized

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 10A 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

Dependable Computing for Critical Applications 2 John Meyer, Richard D. Schlichting, 2012-02-12 This volume contains the papers presented at the Second International Working Conference on Dependable Computing for Critical Applications sponsored by IFIP Working Group 10A 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

**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. Avizienis (UCLA, Los Angeles, USA) and A. Laprie (**Dependable Computing for Critical Applications** 7 Charles B. Weinstock, John Rushby, 1999 **Dependable Computing for Critical Applications** 4 Flaviu Cristian, Gerard LeLann, Teresa Lunt, 1995-03-31 This volume contains the articles presented at the Fourth International IFIP 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 organized

**Dependable Computing for Critical Applications 5** Ravishankar K. Iyer, 1998 Can we rely on computers The individual aspects of system dependability reliability availability safety and security are the factors that determine application success To answer this question the text explores the integration of these dependability attributes within practical working systems This is an important new title in the series on Dependable Computing and Fault Tolerant Systems **Dependable Computing for Critical Applications 7** Charles B Weinstock, 1999 **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 **Dependable Computing for Critical Applications (DCCA-6)**, 1999 **Meta-level Architectures and Reflection** Akinori Yonezawa, Satoshi Matsuoka, 2001-09-12 This book constitutes the refereed proceedings of the Third International Conference on Metalevel Architectures and Separation of Crosscutting Concerns REFLECTION 2001 held in Kyoto Japan in September 2001 The revised eleven long papers seven short papers and eight posters presented were carefully reviewed and selected from 44 submissions The book offers topical sections on reflection and SOC in Java software adaptation using reflection and SOC techniques reflective middleware for distributed mobile applications testing and verification foundations of reflection and SOC and software methodologies for SOC **Third NASA Langley Formal Methods Workshop**, 1995 **Building the Information Society** Rene Jacquot, 2008-04-08 In the context of the 18th IFIP World Computer Congress WCC 04 and beside the traditional organization of conferences workshops tutorials and student forum it was decided to identify a range of topics of dramatic interest for the building of the Information Society This has been featured as the Topical day session track of the WCC 04 Topical Sessions have been selected in order to present syntheses latest developments and or challenges in different business and technical areas Building the Information Society provides a deep perspective on domains including the semantic integration of heterogeneous data virtual realities and new entertainment fault tolerance for trustworthy and dependable information infrastructures abstract interpretation and its use for verification of program properties multimodal interaction computer aided inventing emerging tools and techniques for avionics certification bio nano and information technologies E learning perspectives on ambient intelligence the grand challenge of building a theory of the Railway domain open source software in dependable systems interdependencies of critical infrastructure social robots as a challenge for machine intelligence Building the Information Society comprises the articles produced in support of the Topical Sessions during the IFIP 18th World Computer Congress which was held in August 2004 in Toulouse France and sponsored by the International Federation for Information Processing IFIP Encyclopedia of Software Engineering Three-Volume Set (Print)

Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**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 pro s and con s 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

**Proceedings**, 1994 14th National Computer Security Conference, 1991 *Special Section Dependable Computing for Critical Applications* Catherine Meadows, 1999

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