

# Industry is Embracing Secure and Dependable Computing

- The hardware platforms are changing:
  - Smartcards
  - Pervasive computing / embedded systems
- IBM, Sun “autonomic computing”
- Major PC dependability and security initiatives under way:
  - Trusted Computing Group
    - Promoters: Intel, HP, Compaq, IBM, Microsoft
  - Microsoft’ s trustworthy computing push
  - Intel’ s *LaGrande* dependable hardware

# Dependable Computing Dependable Computing

**John F. Meyer, Richard D. Schlichting**



## **Dependable Computing Dependable Computing:**

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** Ravishankar K. Iyer, Zbigniew T. Kalbarczyk, Nithin M. Nakka, 2024-05-14 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 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. *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

**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

*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 FIP 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

*Design of Dependable Computing Systems* J.C. Geffroy, G. Motet, 2013-03-09 This book analyzes the causes of failures in computing systems their consequences as well as the existing solutions to manage them The domain is tackled in a

progressive and educational manner with two objectives 1 The mastering of the basics of dependability domain at system level that is to say independently of the technology used hardware or software and of the domain of application 2 The understanding of the fundamental techniques available to prevent to remove to tolerate and to forecast faults in hardware and software technologies The first objective leads to the presentation of the general problem the fault models and degradation mechanisms which are at the origin of the failures and finally the methods and techniques which permit the faults to be prevented removed or tolerated This study concerns logical systems in general independently of the hardware and software technologies put in place This knowledge is indispensable for two reasons A large part of a product's development is independent of the technological means expression of requirements specification and most of the design stage Very often the development team does not possess this basic knowledge hence the dependability requirements are considered uniquely during the technological implementation Such an approach is expensive and inefficient Indeed the removal of a preliminary design fault can be very difficult if possible if this fault is detected during the product's final testing

*Fundamentals of Dependable Computing for Software Engineers* John Knight, 2012-01-12 Fundamentals of Dependable Computing for Software Engineers presents the essential elements of computer system dependability The book describes a comprehensive dependability engineering process and explains the roles of software and software engineers in computer system dependability Readers will learn Why dependability matters What it means for a system to be dependable How to build a dependable software system How to assess whether a software system is adequately dependable The author focuses on the actions needed to reduce the rate of failure to an acceptable level covering material essential for engineers developing systems with extreme consequences of failure such as safety critical systems security critical systems and critical infrastructure systems The text explores the systems engineering aspects of dependability and provides a framework for engineers to reason and make decisions about software and its dependability It also offers a comprehensive approach to achieve software dependability and includes a bibliography of the most relevant literature Emphasizing the software engineering elements of dependability this book helps software and computer engineers in fields requiring ultra high levels of dependability such as avionics medical devices automotive electronics weapon systems and advanced information systems construct software systems that are dependable and within budget and time constraints **Predictably Dependable**

**Computing Systems** Brian Randell, Jean-Claude Laprie, Hermann Kopetz, Bev Littlewood, 2013-11-11 Dependable Computing for Critical Applications 3 Carl E. Landwehr, Brian Randell, Luca Simoncini, 2013-06-29 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 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 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** Andrea Bondavalli, Francisco

Brasileiro, Sergio Rajsbaum, 2007-09-12 This book constitutes the refereed proceedings of the Third Latin American Symposium on Dependable Computing LADC 2007 held in Morelia Mexico in September 2007 The papers are organized in topical sections on fault tolerant algorithms software engineering of dependable systems networking and mobile computing experimental dependability evaluation as well as intrusion tolerance and security

### ***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

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**Foundations of Dependable Computing** Gary M. Koob, Clifford G. Lau, 2013-04-17

*Foundations of Dependable Computing 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 A companion to this volume published by Kluwer 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 to this book published by Kluwer subtitled *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

**Dependable Computing - Eddc-3** Jan Hlavicka, Erik Maehle, András

Pataricza, 2014-01-15 *Predictably Dependable Computing Systems* Brian Randell, Jean-Claude Laprie, 1991

**Design of**

**Dependable Computing Systems** J. C. Geffroy, Gilles Motet, 2014-01-15

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Silva Weber, Joao Batista Camargo Jr., 2003-10-02 This book constitutes the refereed proceedings of the First Latin American Symposium on Dependable Computing LADC 2003 held in Sao Paulo Brazil in October 2003 The 21 revised full papers presented together with abstracts of invited talks a panel workshops and tutorials were carefully reviewed and selected for



presentation The papers are organized in topical sections on fault injection security adaptive fault tolerance distributed algorithms and components and fault tolerance

**Dependable Computing (Prdc 2001), 2001 Pacific Rim International Symposium on** IEEE COMPUTER SOCIETY PRESS, IEEE Pacific Rim International Symposium on Dependable Computing, 2001-12-01

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