

**Proceedings**

**21<sup>st</sup> IEEE Symposium on  
Reliable Distributed Systems**

**SRDS 2002**

# Reliable Distributed Systems 1999 Ieee 18th Symposium On

**Christian Lengauer, Don Batory, Charles  
Consel, Martin Odersky**



## **Reliable Distributed Systems 1999 Ieee 18th Symposium On:**

*Proceedings of the 18th IEEE Symposium on Reliable Distributed Systems*, 1999 Papers from an October 1999 symposium present the latest research on facets of reliable distributed systems including mobile computing distributed algorithms formal methods replication techniques scalability failure analysis system support logging and checkpointing and CORBA systems Novel techniques are proposed design paradigms are explored and critical validation issues are addressed Specific topics include diffusing updates in a Byzantine environment optimistic recovery in multi threaded distributed systems and resolving distributed deadlocks in the OR request model Lacks a subject index Annotation copyrighted by Book News Inc Portland OR

**On the Move to Meaningful Internet Systems 2005: CoopIS, DOA, and ODBASE** Zahir Tari, 2005-10-11 This two volume set LNCS 3760 3761 constitutes the refereed proceedings of the three confederated conferences CoopIS 2005 DOA 2005 and ODBASE 2005 held as OTM 2005 in Agia Napa Cyprus in October November 2005 The 89 revised full and 7 short papers presented together with 3 keynote speeches were carefully reviewed and selected from a total of 360 submissions Corresponding with the three OTM 2005 main conferences CoopIS DOA and ODBASE the papers are organized in topical sections on workflow workflow and business processes mining and filtering petri nets and process management information access and integrity heterogeneity semantics querying and content delivery Web services agents security integrity and consistency chain and collaboration management Web services and service oriented architectures multicast and fault tolerance communication services techniques for application hosting mobility security and data persistence component middleware java environments peer to peer computing architectures aspect oriented middleware information integration and modeling query processing ontology construction metadata information retrieval and classification system verification and evaluation and active rules and Web services

*Frontiers of WWW Research and Development -- APWeb 2006* Xiaofang Zhou, Jianzhong Li, Heng Tao Shen, Masaru Kitsuregawa, Yanchun Zhang, 2006-01-09 This book constitutes the refereed proceedings of the 8th Asia Pacific Web Conference APWeb 2006 More than 100 papers cover all current issues on WWW related technologies and new advanced applications for researchers and practitioners from both academic and industry

**Security in the Information Society** M. Adeeb Ghonaimy, Mahmoud T. El-Hadidi, Heba K. Aslan, 2002-04-30 Recent advances in technology and new software applications are steadily transforming human civilization into what is called the Information Society This is manifested by the new terminology appearing in our daily activities E Business E Government E Learning E Contracting and E Voting are just a few of the ever growing list of new terms that are shaping the Information Society Nonetheless as Information gains more prominence in our society the task of securing it against all forms of threats becomes a vital and crucial undertaking Addressing the various security issues confronting our new Information Society this volume is divided into 13 parts covering the following topics Information Security Management Standards of Information Security Threats and Attacks to Information Education and Curriculum for Information Security

Social and Ethical Aspects of Information Security Information Security Services Multilateral Security Applications of Information Security Infrastructure for Information Security Advanced Topics in Security Legislation for Information Security Modeling and Analysis for Information Security Tools for Information Security Security in the Information Society Visions and Perspectives comprises the proceedings of the 17th International Conference on Information Security SEC2002 which was sponsored by the International Federation for Information Processing IFIP and jointly organized by IFIP Technical Committee 11 and the Department of Electronics and Electrical Communications of Cairo University The conference was held in May 2002 in Cairo Egypt New Approaches for Security, Privacy and Trust in Complex Environments Hein Venter, Mariki Eloff, Les Labuschagne, Jan Eloff, Rossouw von Solms, 2007-11-10 This book contains the Proceedings of the 22nd IFIP TC 11 International Information Security Conference IFIP SEC 2007 on New Approaches for Security Privacy and Trust in Complex Environments held in Sandton South Africa from 14 to 16 May 2007 The IFIP SEC conferences are the flagship events of TC 11 In May 1995 South Africa for the first time hosted an IFIP SEC conference in Cape Town Now twelve years later we are very pleased to have succeeded in our bid to once again present the IFIP SEC conference in South Africa The current IT environment deals with novel complex approaches such as information privacy trust digital forensics management and human aspects This modern environment challenges the whole information security research community to focus on interdisciplinary and holistic approaches whilst retaining the benefit of previous research efforts Papers offering research contributions that focus both on access control in complex environments and on other aspects of computer security and privacy were solicited for submission to IFIP SEC 2007 A total of 107 submissions were received which were all reviewed by at least three members of the international programme committee **Information Communication Technology Standardization for E-Business Sectors: Integrating Supply and Demand Factors** Jakobs, Kai, 2009-04-30 This book studies the nature relevance and quality of standards with ICTs and the impact they have on businesses Provided by publisher **18th symposium on reliable distributed systems (SRDS '99)**, 1999 *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

**Green, Pervasive, and Cloud Computing** Shijian Li, 2019-03-14 This book constitutes the proceedings of the 13th International Conference on Green Pervasive and Cloud Computing GPC 2018 held in Hangzhou China in May 2018 The 35 full papers included in this volume were carefully reviewed and selected from 101 initial submissions They are organized in the following topical sections network security and privacy preserving pervasive sensing and analysis cloud computing mobile computing and crowd sensing social and urban computing parallel and distributed systems optimization pervasive applications and data mining and knowledge mining

**Advances in Distributed Systems** Sacha Krakowiak, Santosh Shrivastava, 2003-06-26 In 1992 we initiated a research project on large scale distributed computing systems LSDCS It was a collaborative project involving research institutes and universities in Bologna Grenoble Lausanne Lisbon Rennes Rocquencourt Newcastle and Twente The World Wide Web had recently been developed at CERN but its use was not yet as common place as it is today and graphical browsers had yet to be developed It was clear to us and to just about everyone else that LSDCS comprising several thousands to millions of individual computer systems nodes would be coming into existence as a consequence both of technological advances and the demands placed by applications We were excited about the problems of building large distributed systems and felt that serious rethinking of many of the existing computational paradigms algorithms and structuring principles for distributed computing was called for In our research proposal we summarized the problem domain as follows We expect LSDCS to exhibit great diversity of node and communications capability Nodes will range from mobile laptop computers workstations to supercomputers Whereas mobile computers may well have unreliable low bandwidth communications to the rest of the system other parts of the system may well possess high bandwidth communications capability To appreciate the problems posed by the sheer scale of a system comprising thousands of nodes we observe that such systems will be rarely functioning in their entirety

**Distributed Applications and Interoperable Systems** Frank Eliassen, 2006-06-06 This book constitutes the refereed proceedings of the 6th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems DAIS 2006 held in Bologna Italy June 2006 The book presents 21 revised regular and 5 revised work in progress papers on architectures models technologies and platforms for interoperable scalable and adaptable systems and cover subjects as methodological aspects tools and language of building adaptable distributed and interoperable services and many more

Cloud, Grid and High Performance Computing: Emerging Applications Udoh, Emmanuel, 2011-06-30 This book offers new and established perspectives on architectures services and the resulting impact of emerging computing technologies including investigation of practical and theoretical issues in the related fields of grid cloud and high performance computing Provided by publisher

**Distributed Artificial Intelligence, Agent Technology, and Collaborative Applications** Sugumaran, Vijayan, 2008-12-31 This book is a catalyst for emerging research in intelligent

information specifically artificial intelligent technologies and applications to assist in improving productivity in many roles such as assistants to human operators and autonomous decision making components of complex systems Provided by publisher **Internet of Things and Secure Smart Environments** Uttam Ghosh,Danda B Rawat,Raja Datta,Al-Sakib Khan Pathan,2020-11-04 The main goal of Internet of Things IoT is to make secure reliable and fully automated smart environments However there are many technological challenges in deploying IoT This includes connectivity and networking timeliness power and energy consumption dependability security and privacy compatibility and longevity and network protocol standards Internet of Things and Secure Smart Environments Successes and Pitfalls provides a comprehensive overview of recent research and open problems in the area of IoT research Features Presents cutting edge topics and research in IoT Includes contributions from leading worldwide researchers Focuses on IoT architectures for smart environments Explores security privacy and trust Covers data handling and management accumulation abstraction storage processing encryption fast retrieval security and privacy in IoT for smart environments This book covers state of the art problems presents solutions and opens research directions for researchers and scholars in both industry and academia

*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 *Domain-Specific Program Generation* Christian Lengauer,Don Batory,Charles Consel,Martin Odersky,2004-11-18 Program generation holds the

promise of helping to bridge the gap between application level problem solutions and efficient implementations at the level of today's source programs as written in C or Java. Thus program generation can substantially contribute to reducing production cost and time to market in future software production while improving the quality and stability of the product. This book is about domain specific program generation; it is the outcome of a Dagstuhl seminar on the topic held in March 2003. After an introductory preface by the volume editors, the 18 carefully reviewed revised full papers presented are organized into topical sections on surveys of domain specific programming technologies, domain specific programming languages, tool support for program generation, domain specific techniques for program optimization, *Stabilization, Safety, and Security of*

*Distributed Systems* Ajoy K. Datta, Maria Gradinariu, 2007-06-27. This book constitutes the refereed proceedings of the 8th International Symposium on Stabilization, Safety, and Security of Distributed Systems SSS 2006 held in Dallas, TX, USA, in November 2006. The 36 revised full papers and 12 revised short papers presented together with the extended abstracts of 2 invited lectures address all aspects of self stabilization, safety and security, recovery oriented systems and programming

Distributed Applications and Interoperable Systems Twittie Senivongse, Rui Oliveira, 2009-05-25. This book constitutes the refereed proceedings of the 9th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems DAIS 2009 held in Lisbon, Portugal, in June 2009. The DAIS conference was held as part of the federated event on Distributed Computing Techniques, DisCoTec, together with the 11th International Conference on Coordination Models and Languages Coordination 2009 and the IFIP WG 6.1 International Conference on Formal Techniques for Distributed Systems FMOODS FORTE 2009. The 12 revised full papers presented were carefully reviewed and selected from 32 submissions. The papers address service orientation, quality of service and service contract, business processes, Web services, service components, algorithms and protocols supporting dependability, fault tolerance, data replication, group communication, adaptive and collaborative systems, context awareness, model driven development, middleware for ubiquitous computing and sensor networks, ad hoc network protocols, peer to peer systems and overlays. They are organized in topical sections: peer to peer networks, ad hoc networks, dependability and infrastructure and services. Proceedings, 1999. Annotation: Two volumes contain papers presented at the January 2000 conference in South Carolina. The subject is how to strengthen security of network systems and the DARPA Information Survivability program began in 1994 as a government funded response to threats to the US Department of Defense. The program's four research areas addressed here in 32 papers from government, academia and industry include high confidence networking, developing protocols and services to protect the integrity of internet based activities, high confidence computing, developing secure operating systems and computing environments, survivability of large scale systems focusing on intrusion detection techniques and wrappers and composition toolkits for integrating security and survivability functionality into legacy systems. Indexed only by author. Annotation copyrighted by Book News, Inc., Portland, OR. **On the Move to Meaningful Internet Systems 2004: CoopIS, DOA, and ODBASE R.**

Meersman,2004-10-14 This two volume set LNCS 3290 3291 constitutes the refereed proceedings of the three confederated conferences CoopIS 2004 DOA 2004 and ODBASE 2004 held as OTM 2004 in Agia Napa Cyprus in October 2004 The 94 revised full papers presented were carefully reviewed and selected from a total of 380 submissions In accordance with the three OTM 2004 main conferences CoopIS DOA and ODBASE the papers are devoted to interoperability workflow and cooperation distributed objects infrastructure and enabling technology and Internet computing and data and Web semantics



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