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Distributed Autonomous Robotic Systems

15th International Symposium



Springer

15th Symposium On Reliable Distributed Systems

Prasad Jayanti



15th Symposium On Reliable Distributed Systems:

Reliable Distributed Systems, 15th Symposium On: SRDS 15, 1996 **IEEE ... Symposium on Reliable Distributed Systems**, 1997 **Distributed Computing** Prasad Jayanti, 2003-07-31

DISC the International Symposium on Distributed Computing is an annual forum for research presentations on all facets of distributed computing. This volume includes 23 contributed papers and an invited lecture all presented at DISC 99 held on September 27-29, 1999 in Bratislava, Slovak Republic. In addition to regular submissions, the call for papers for DISC 99 also solicited Brief Announcements (BAs). We received 60 regular submissions and 15 brief announcement submissions. These were read and evaluated by the program committee with the additional help of external reviewers when needed. At the program committee meeting on June 10-11 at Dartmouth College, Hanover, USA, 23 regular submissions and 4 BAs were selected for presentation at DISC 99. The extended abstracts of these 23 regular papers appear in this volume, while the four BAs appear as a special publication of Comenius University Bratislava, the host of DISC 99. It is expected that the regular papers will be submitted later in more polished form to fully refereed scientific journals. Of the 23 regular papers selected for the conference, 12 qualified for the Best Student Paper award. The program committee awarded this honor to the paper entitled "Revisiting the Weakest Failure Detector for Uniform Reliable Broadcast" by Marcos Aguilera, Sam Toueg, and Borislav Deianov. Marcos and Borislav, who are both students, share this award.

Reliable Distributed Systems, 15th Symposium On IEEE Computer Society, IEEE Computer Society Press, IEEE, 1996-01-01. Contains papers from the October 1996 symposium emphasizing innovative approaches to dependable distributed system design and analysis and addressing problems and solutions in areas such as group communication, time constraints, replication, recovery, and architecture. Offers sections on novel architectures, evaluation and testing, checkpointing, and stable storage, diagnosis, group communication, replication, issues, and time constraints, plus an industry perspective on reliable distributed systems. No index. Annotation copyrighted by Book News, Inc., Portland, OR.

Distributed Computing and Networking Vijay Garg, Roger Wattenhofer, Kishore Kothapalli, 2009-03-26

People volunteer their time and energy and work in a dedicated fashion to pull everything together each year, including our very supportive Steering Committee members led by Sukumar Ghosh. However, the success of ICDCN is mainly due to the hard work of all those people who submit papers and/or attend the conference. We thank you all!

January 2009 Prasad Jayanti

Andrew T. Campbell

Message from the Technical Program Chairs: Welcome to the proceedings of the 10th International Conference on Distributed Computing and Networking (ICDCN 2009). As ICDCN celebrates its 10th anniversary, it has become an important forum for disseminating the latest research results in distributed computing and networking. We received 179 submissions from all over the world, including Algeria, Australia, Canada, China, Egypt, France, Germany, Hong Kong, Iran, Italy, Japan, Malaysia, The Netherlands, Poland, Singapore, South Korea, Taiwan, and the USA, besides India, the host country. The submissions were read and evaluated by the Program Committee, which consisted of 25 members for the Distributed

Computing Track and 28 members for the Networking Track with the additional help of external reviewers The Program Committee selected 20 regular papers and 32 short papers for inclusion in the proceedings and presentation at the conference We were fortunate to have several distinguished scientists as keynote speakers Andrew Campbell Dartmouth College USA Maurice Herlihy Brown University USA and P R Kumar University of Illinois Urbana Champaign delivered the keynote address Krithi Ramamritham from IIT Bombay India delivered the A K Choudhury Memorial talk Dependable Computing Rogério le Lemos,Taisy 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 **High Performance Computing - HiPC 2000** Mateo Valero,Viktor K. Prasanna,Sriram Vajapeyam,2003-06-29 This book constitutes the refereed proceedings of the 7th International Conference on High Performance Computing HiPC 2000 held in Bangalore India in December 2000 The 46 revised papers presented together with five invited contributions were carefully reviewed and selected from a total of 127 submissions The papers are organized in topical sections on system software algorithms high performance middleware applications cluster computing architecture applied parallel processing networks wireless and mobile communication systems and large scale data mining **Proceedings of the International Symposium on Distributed Objects and Applications** Zahir Tari,1999 The September 1999 symposium provided a forum for both researchers and practitioners of distributed object systems to evaluate existing ORB middleware products to propose solutions to major limitations of existing products and to introduce promising future research directions Contributors emphasi Computer Safety, Reliability and Security Stuart Anderson,Sandro Bologna,Massimo Felici,2003-08-02 This book constitutes the refereed proceedings of the 21st International Conference on Computer Safety Reliability and Security SAFECOMP 2002 held in Catania Italy in September 2002 The 27 revised papers presented together with 3 keynote presentations were carefully reviewed and selected from 69 submissions The papers are organized in topical sections on human computer system dependability human factors security dependability assessment application of formal methods reliability assessment design for dependability and safety assessment *Distributed Systems for System Architects* Paulo Veríssimo,Luís Rodrigues,2012-12-06 The primary audience for this book are advanced undergraduate students and graduate students Computer architecture as it happened in other fields such as electronics evolved from the small to the large that is it left the realm of low level hardware constructs and gained new dimensions as distributed systems became the keyword for system implementation As such the system architect today assembles pieces of hardware that are at least as large as a computer or a network router or a LAN hub and assigns pieces of software that are self contained such as client or server programs Java applets or protocol modules to

those hardware components The freedom she he now has is tremendously challenging The problems alas have increased too What was before mastered and tested carefully before a fully fledged mainframe or a closely coupled computer cluster came out on the market is today left to the responsibility of computer engineers and scientists invested in the role of system architects who fulfil this role on behalf of software vendors and integrators add value system developers R D institutes and final users As system complexity size and diversity grow so increases the probability of inconsistency unreliability non responsiveness and insecurity not to mention the management overhead What System Architects Need to Know The insight such an architect must have includes but goes well beyond the functional properties of distributed systems

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

Software Design for Resilient Computer Systems Igor Schagaev,Jürg Gutknecht,2024-07-15 This book addresses the question of how system software should be designed to account for faults and which fault tolerance features should provide for highest reliability With this third edition of Software Design for Resilient Computer Systems the book is thoroughly updated to contain the newest advice regarding software resilience With a new introductory chapter the new edition is ideal for researchers and industry professionals In the book the authors first show how system software interacts with the hardware to tolerate faults They analyze and further develop the theory of fault tolerance to understand the diverse ways to increase the reliability of a system with special attention on the role of system software in this process They introduce the theory of redundancy and its use for construction of a subsystem through generalised algorithm of fault tolerance GAFT and apply it to distributed systems The book s approach is applied to various hardware subsystems different structures of RAM and processor cores and demonstrates exceptional performance reliability and energy efficiency This third edition devotes

substantial attention to system software for modern computers including run time systems supporting algorithms of recovery and their analysis language aspects and ways to improve reconfigurable and parallel computing 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

Future Directions in Distributed Computing André Schiper, 2003-04-07 This book presents a collection of 38 position and research papers surveying the future landscape of research in distributed computing written by the participants of the Workshop on Future Directions in Distributed Computing held in Bertinoro Italy in June 2002 The papers are grouped into four topical sections The first deals with foundations of distributed computing The second section surveys research issues in novel communication and network services The third section is about data file services coherence and replication in network computing The last section deals with system and application issues The book also includes two papers presenting insights into technological and social processes that are part of the development of the distributed computing technology All in all the book contains a plethora of research topics that are targets of future research or that are already being addressed by forward looking research in distributed computing The book was written to be a source of inspiration for researchers and a source of motivation for graduate students interested in entering the exciting research field of distributed computing

DOA'00 Pamela Drew, 2000 The 2000 s International Symposium on Distributed Objects and Applications DOA is the second Preface *Advances in Computers* Marvin Zelkowitz, 2009-05-20 This is volume 76 of the *Advances in Computers* Since 1960 annual volumes are produced containing chapters by some of the leading experts in the field of computers today For almost 50 years these volumes present ideas and developments that are radically changing our society One of the most important ideas sweeping though society today is the social networking website Names like Wikipedia Flickr Second Life Twitter Facebook Meetup MySpace LinkedIn among others are becoming common parlance as the youth and a growing segment of the adult population now view such websites as alternatives to the corner convenience store or coffee shop and critically important avenues for social interactions In this volume we explore this phenomenon to describe the development of some of these ideas as well as developments in web technology that enable this to occur This volume contains seven chapters divided into two parts The first three chapters describe the social networking phenomenon and provide insights into the technology and influences on our culture The last four chapters provide details of the underlying technology that allows the web to expand to include these social networking sites as well as other new applications for information dissemination accessing and sharing

Networked Group Communication Luigi Rizzo, Serge Fdida, 2004-06-22 Enabling group communication is one of the major challenges for the future Internet Various issues ranging from services and applications to protocols and infrastructure have to be addressed Moreover they need to be studied from various angles and therefore involve skills in multiple areas

COST264 was created to contribute to this international effort towards group communication and related technologies The

European COST framework is ideal for establishing a new community of interest providing an open forum for ideas and also supporting young researchers in the field. The COST264 action officially started in late 1998 aims at leveraging the European research in this area and creating intensive interaction at the international level. To this purpose COST264 decided to organize an annual technical workshop. The International Workshop on Networked Group Communication NGC 99 in Pisa is the first event of the series. Despite this being the first workshop and despite the very short time between the Call for Papers and the deadline for submissions and the other conflicting and more established events, the Call for Papers of NGC 99 was highly successful: we received 49 papers of which 18 were selected to compose the basis of the technical program. We hope you will enjoy our paper selection which is the VI Preface core of these proceedings and addresses important issues in the research and development of networked group communication. In addition to refereed contributions we scheduled two keynote speakers: Christophe Diot and Steve Deering and four invited talks by Ken Birman (Cornell), Bob Briscoe (BT), Radia Perlman (SUN), and Tony Speakman (Cisco).

Distributed Computing Dahlia Malkhi, 2002-10-14 This book constitutes the refereed proceedings of the 16th International Conference on Distributed Computing DISC 2002 held in Toulouse, France, in October 2002. The 24 revised full papers presented were carefully reviewed and selected from 76 submissions. Among the issues addressed are: broadcasting, secure computation, view maintenance, communication protocols, distributed agreement, self-stabilizing algorithms, message passing systems, dynamic networks, condition monitoring systems, shared memory computing, Byzantine processes, routing, failure detection, compare and swap operations, cooperative computation, and consensus algorithms.

Distributed Computing Faith Ellen Fich, 2003-12-09 This book constitutes the refereed proceedings of the 17th International Conference on Distributed Computing DISC 2003 held in Sorrento, Italy, in October 2003. The 25 revised full papers presented were carefully reviewed and selected from 91 submissions. A broad variety of current issues in distributed computing is addressed from foundational and theoretical issues to applications in various fields.

Fundamentals of Pervasive Information Management Systems Vijay Kumar, 2013-09-16 A comprehensive new edition on mobile computing covering both mobile and sensor data. The new paradigm of pervasive computing was born from the needs of highly mobile workers to access and transfer data while on the go. Significant advances in the technology have lent and will continue to lend prevalence to its use especially in m-commerce. Covering both mobile data and sensor data, this comprehensive text offers updated research on sensor technology, data stream processing, mobile database security, and contextual processing. Packed with cases, studies, exercises, and examples, *Fundamentals of Pervasive Information Management Systems* covers essential aspects of wireless communication and provides a thorough discussion about managing information on mobile database systems. MDS-It addresses the integration of web and workflow with mobile computing and looks at the current state of research. *Fundamentals of Pervasive Information Management Systems* presents chapters on Mobile Database System, Mobile and Wireless Communication, Location and Handoff Management, Fundamentals of Database Processing, Introduction to

Concurrency Control Mechanisms Effect of Mobility on Data Processing Transaction Management in Mobile Database Systems Mobile Database Recovery Wireless Information Dissemination Introduction to Sensor Technology Sensor Technology and Data Streams Management Sensor Network Deployment Case Studies Fundamentals of Pervasive Information Management Systems is an ideal book for researchers teachers and graduate students of mobile computing The book may also be used as a reference text for researchers or managers Guide to Reliable Distributed Systems Kenneth P Birman,2012-01-15 This book describes the key concepts principles and implementation options for creating high assurance cloud computing solutions The guide starts with a broad technical overview and basic introduction to cloud computing looking at the overall architecture of the cloud client systems the modern Internet and cloud computing data centers It then delves into the core challenges of showing how reliability and fault tolerance can be abstracted how the resulting questions can be solved and how the solutions can be leveraged to create a wide range of practical cloud applications The author s style is practical and the guide should be readily understandable without any special background Concrete examples are often drawn from real world settings to illustrate key insights Appendices show how the most important reliability models can be formalized describe the API of the Isis2 platform and offer more than 80 problems at varying levels of difficulty

Unveiling the Magic of Words: A Report on "**15th Symposium On Reliable Distributed Systems**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**15th Symposium On Reliable Distributed Systems**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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