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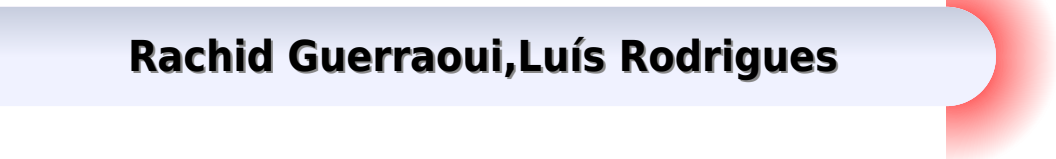
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Reliable Distributed Systems SrdS 2004 Proceedings

Rachid Guerraoui, Luís Rodrigues



Reliable Distributed Systems SrdS 2004 Proceedings:

SRDS 2004 ,2004 **Introduction to Reliable Distributed Programming** Rachid Guerraoui,Luís

Rodrigues,2006-05-01 In modern computing a program is usually distributed among several processes The fundamental challenge when developing reliable distributed programs is to support the cooperation of processes required to execute a common task even when some of these processes fail Guerraoui and Rodrigues present an introductory description of fundamental reliable distributed programming abstractions as well as algorithms to implement these abstractions The authors follow an incremental approach by first introducing basic abstractions in simple distributed environments before moving to more sophisticated abstractions and more challenging environments Each core chapter is devoted to one specific class of abstractions covering reliable delivery shared memory consensus and various forms of agreement This textbook comes with a companion set of running examples implemented in Java These can be used by students to get a better understanding of how reliable distributed programming abstractions can be implemented and used in practice Combined the chapters deliver a full course on reliable distributed programming The book can also be used as a complete reference on the basic elements required to build reliable distributed applications SRDS 2004 ,2004-01 SRDS focuses on emerging

concepts and innovative practices looks at distributed systems design and development and concentrates on reliability availability safety security and real time properties **Building Dependable Distributed Systems** Wenbing

Zhao,2014-03-06 A one volume guide to the most essential techniques for designing and building dependable distributed systems Instead of covering a broad range of research works for each dependability strategy this useful reference focuses on only a selected few usually the most seminal works the most practical approaches or the first publication of each approach explaining each in depth usually with a comprehensive set of examples Each technique is dissected thoroughly enough so that readers who are not familiar with dependable distributed computing can actually grasp the technique after studying the book Building Dependable Distributed Systems consists of eight chapters The first introduces the basic concepts and terminology of dependable distributed computing and also provides an overview of the primary means of achieving dependability Checkpointing and logging mechanisms which are the most commonly used means of achieving limited degree of fault tolerance are described in the second chapter Works on recovery oriented computing focusing on the practical techniques that reduce the fault detection and recovery times for Internet based applications are covered in chapter three Chapter four outlines the replication techniques for data and service fault tolerance This chapter also pays particular attention to optimistic replication and the CAP theorem Chapter five explains a few seminal works on group communication systems Chapter six introduces the distributed consensus problem and covers a number of Paxos family algorithms in depth The Byzantine generals problem and its latest solutions including the seminal Practical Byzantine Fault Tolerance PBFT algorithm and a number of its derivatives are introduced in chapter seven The final chapter details the latest research results

surrounding application aware Byzantine fault tolerance which represents an important step forward in the practical use of Byzantine fault tolerance techniques

Algorithms and Architectures for Parallel Processing Yang Xiang,Ivan Stojmenovic,Bernady O. Aduhan,Guojun Wang,Koji Nakano,Albert Y. Zomaya,2012-09-04 The two volume set LNCS 7439 and 7440 comprises the proceedings of the 12th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2012 as well as some workshop papers of the CDCN 2012 workshop which was held in conjunction with this conference The 40 regular paper and 26 short papers included in these proceedings were carefully reviewed and selected from 156 submissions The CDCN workshop attracted a total of 19 original submissions 8 of which are included in part II of these proceedings The papers cover many dimensions of parallel algorithms and architectures encompassing fundamental theoretical approaches practical experimental results and commercial components and systems

Global Data Management R. Baldoni,G. Cortese,F. Davide,2006-07-26 Some researcher has created the vision of the data utility as a key enabler towards ubiquitous and pervasive computing Decentralization and replication would be the approach to make it resistant against security attacks This book presents an organic view on the research and technologies which bring us towards the realization of the vision

Distributed Computing and Intelligent Technology Quentin Bramas,Bapi Chatterjee,Stéphane Devismes,Malcolm Egan,Partha Sarathi Mandal,Krishnendu Mukhopadhyaya,V. Vijaya Saradhi,2024-12-31 This volume LNCS constitutes the refereed proceedings of the 21st International Conference on Distributed Computing and Intelligent Technology ICDCIT 2025 in Bhubaneswar in India in January 2025 ICDCIT is organized into two tracks Distributed Computing DC and Intelligent Technology IT The DC track solicits original research papers contributing to the foundations and applications of distributed computing The DC track PC accepted 10 papers 7 regular papers and 3 short papers and the IT track PC accepted 8 regular papers The conference presents and discusses results and ideas on the foundations and applications of distributed computing and intelligent technology

Handbook of Peer-to-Peer Networking Xuemin Shen,Heather Yu,John Buford,Mursalin Akon,2010-03-03 Peer to peer networking is a disruptive technology for large scale distributed applications that has recently gained wide interest due to the successes of peer to peer P2P content sharing media streaming and telephony applications There are a large range of other applications under development or being proposed The derlying architectures share features such as decentralization sharing of end system resources autonomy virtualization and self organization These features constitute the P2P paradigm This handbook broadly addresses a large cross section of current research and state of the art reports on the nature of this paradigm from a large number of experts in the field Several trends in information and network technology such as increased performance and deployment of broadband networking wireless networking and mobile devices are synergistic with and reinforcing the capabilities of the P2P paradigm There is general expectation in the technical community that P2P networking will continue to be an important tool for networked applications and impact the evolution of the Internet A large amount of research activity

has resulted in a relatively short time and a growing community of researchers has developed The Handbook of Peer to Peer Networking is dedicated to discussions on P2P networks and their applications This is a comprehensive book on P2P computing *Distributed Systems* Matthieu Perrin, 2017-03-25 Distributed Systems Concurrency and Consistency explores the gray area of distributed systems and draws a map of weak consistency criteria identifying several families and demonstrating how these may be implemented into a programming language Unlike their sequential counterparts distributed systems are much more difficult to design and are therefore prone to problems On a large scale usability reminiscent of sequential consistency which would provide the same global view to all users is very expensive or impossible to achieve This book investigates the best ways to specify the objects that are still possible to implement in these systems Explores the gray area of distributed systems and draws a map of weak consistency criteria Investigates the best ways to specify the objects that are still possible to implement in these systems Presents a description of existing memory models and consistency criteria **Transactions on Computational Collective Intelligence XXXIII** Ngoc Thanh Nguyen, Ryszard Kowalczyk, Fatos Xhafa, 2019-06-20 These transactions publish research in computer based methods of computational collective intelligence CCI and their applications in a wide range of fields such as performance optimization in IoT big data reliability privacy security service selection QoS and machine learning This thirty third issue contains 9 selected papers which present new findings and innovative methodologies as well as discuss issues and challenges in the field of collective intelligence from big data and networking paradigms while addressing security privacy reliability and optimality to achieve QoS to the benefit of final users

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