Introduction To Reliable Distributed Programming

Introduction to Reliable and Secure Distributed ProgrammingIntroduction to Reliable Distributed ProgrammingGuide to Reliable Distributed SystemsReliable Distributed SystemsReliable Distributed SystemsReliable Distributed SystemsHigh-level Language Support for Programming Reliable Distributed SystemsReliable Distributed SystemsGuide to Reliable Distributed SystemsReliable Distributed System SoftwareReliable Distributed Computing with the Isis ToolkitObject-Based Parallel and Distributed ComputationHigh-Level Language Support for Programming Reliable Distributed SystemsReliable Distributed Programming in C++: the Arjuna ApproachReliable Distributed Computing with the Isis ToolkitDistributed ComputingDependable and Historic ComputingPrinciples of Distributed SystemsDesigning Reliable Distributed SystemsSymposium on Reliable Distributed Systems (Srds 2008) Christian Cachin Rachid Guerraoui Kenneth P Birman Amy Elser Amy Elser International Business Machines Corporation. Research Division Kenneth P. Birman Amy Elser John A. Stankovic Kenneth P. Birman Jean-Pierre Briot J. S. Auerbach (et. al.) Graham Douglas Parrington Kenneth P. Birman Gadi Taubenfeld Cliff Jones Marcos K. Aguilera Peter Csaba Ölveczky Computer Society Technical Committee on Distributed Processing Introduction to Reliable and Secure Distributed Programming Introduction to Reliable Distributed Programming Guide to Reliable Distributed Systems Reliable Distributed Systems Reliable Distributed Systems Reliable Distributed Systems High-level Language Support for Programming Reliable Distributed Systems Reliable Distributed Systems Guide to Reliable Distributed Systems Reliable Distributed System Software Reliable Distributed Computing with the Isis Toolkit Object-Based Parallel and Distributed Computation High-Level Language Support for Programming Reliable Distributed Systems Reliable Distributed Programming in C++: the Arjuna Approach Reliable Distributed Computing with the Isis Toolkit Distributed Computing Dependable and Historic Computing Principles of Distributed Systems Designing Reliable Distributed Systems Symposium on Reliable Distributed Systems (Srds 2008) *Christian Cachin Rachid Guerraoui Kenneth P Birman Amy Elser Amy Elser International Business Machines Corporation. Research Division Kenneth P. Birman Amy Elser John A. Stankovic Kenneth P. Birman Jean-Pierre Briot J. S. Auerbach (et. al.) Graham Douglas Parrington Kenneth P. Birman Gadi Taubenfeld Cliff Jones Marcos K. Aguilera Peter Csaba Ölveczky Computer Society Technical*

Committee on Distributed Processing

in modern computing a program is usually distributed among several processes the fundamental challenge when developing reliable and secure distributed programs is to support the cooperation of processes required to execute a common task even when some of these processes fail failures may range from crashes to adversarial attacks by malicious processes cachin guerraoui and rodrigues present an introductory description of fundamental distributed programming abstractions together with algorithms to implement them in distributed systems where processes are subject to crashes and malicious attacks 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 topic covering reliable broadcast shared memory consensus and extensions of consensus for every topic many exercises and their solutions enhance the understanding this book represents the second edition of introduction to reliable distributed programming its scope has been extended to include security against malicious actions by non cooperating processes this important domain has become widely known under the name byzantine fault tolerance

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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

explains fault tolerance in clear terms with concrete examples drawn from real world settings highly practical focus aimed at building mission critical networked applications that remain secure

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abstract this paper presents a strategy for simplifying the programming of heterogeneous distributed systems our approach is based on integrating a distributed programming model into high level languages and hiding low level details such as multitasking interprocess and network communications and fault tolerance in the implementation of the language constructs programs in these languages are shorter simpler to write and test and are portable across different environments we propose a platform for developing reliable distributed systems based on this approach

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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

reliable distributed computing with the isis toolkit presents technical results documenting various internal aspects of isis along with less technical results illustrating how systems are used to develop closely coupled and fault tolerant application environments the text consists of 20 papers that document isis and describe its important applications the first section deals with the underlying ideas of the isis system the second section describes design alternatives the horus system integrating security in a group oriented distributed system and high availability in a real time system the third section examines the protocols used in isis and horus the last section contains user contributed papers on isis applications and tools

this book contains a refereed collection of revised papers selected from the presentations at the france japan workshop on object based parallel and distributed computation obpdc 95 held in tokyo in june 1995 the 18 full papers included in the book constitute a representative well balanced set of timely research contributions to the growing field of object based concurrent computing the volume is organized in sections on massively parallel programming languages distributed programming languages formalisms distributed operating systems dependable distributed computing and software management

in distributed computing systems the software for networks a system may have a huge number of components resulting in a high level of complexity that and issues such as fault tolerance security system management and exploitation of concurrency make the development of complex distributed systems a challenge

this book constitutes the refereed proceedings of the 22nd international symposium on distributed computing disc 2008 held in arcachon france in september 2008 the 33 revised full papers selected from 101 submissions are presented together with 11 brief announcements of ongoing works all of them were carefully reviewed and selected for inclusion in the book the papers address all aspects of distributed computing including the theory design implementation and applications of distributed algorithms systems and networks ranging from foundational and theoretical topics to algorithms and systems issues and to applications in various fields

this festschrift volume published in honor of brian randell on the occasion of his 75th birthday contains a total of 37 refereed contributions two biographical papers are followed by the six invited papers that were presented at the conference dependable and historic computing the randell tales held during april 7 8 2011 at newcastle university uk the remaining contributions are authored by former scientific colleagues of brian randell the papers focus on the core of brian randell s work the development of computing science and the study of its history moreover his wider interests are reflected and so the collection comprises papers on software engineering storage fragmentation computer architecture programming languages and dependability there is even a paper that echoes randell s love of maps after an early career with english electric and then with ibm in new york and california brian randell joined newcastle university his main research has been on dependable computing in all its forms especially reliability safety and security aspects and he has led several major european collaborative projects

this book constitutes the refereed proceedings of the 18th international conference on principles of distributed systems opodis 2014 cortina d ampezzo italy in december 2014 the 32 papers presented together with two invited talks were carefully reviewed and selected from 98 submissions the papers are organized in topical sections on consistency distributed graph algorithms fault tolerance models radio networks robots self stabilization shared data structures shared memory synchronization and universal construction

this classroom tested textbook provides an accessible introduction to the design formal modeling and analysis of distributed computer systems the book uses maude a rewriting logic based language and simulation and model checking tool which offers a simple and intuitive modeling formalism that is suitable for modeling distributed systems in an attractive object oriented and functional programming style topics and features introduces classical algebraic specification and term rewriting theory including reasoning about termination confluence and equational properties covers object oriented modeling of distributed systems using rewriting logic as well as temporal logic to specify requirements that a system should satisfy provides a range of examples and case studies from different domains to help the reader to develop an intuitive understanding of distributed systems and their design challenges examples include classic distributed systems such as transport protocols cryptographic protocols and distributed transactions leader election and mutual execution algorithms contains a wealth of exercises including larger exercises suitable for course projects and supplies executable code and supplementary material at an associated website

this self contained textbook is designed to support undergraduate courses on formal methods and distributed systems and will prove invaluable to any student seeking a reader friendly introduction to formal specification logics and inference systems and automated model checking techniques

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