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Introduction to the Book

Reliable and Secure Distributed Programming

Second Edition

 Springer

Introduction To Reliable And Secure Distributed Programming

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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.

Stabilization, Safety, and Security of Distributed Systems Colette Johnen, Elad Michael Schiller, Stefan Schmid, 2021-11-08. This book constitutes the refereed proceedings of the 23rd International Symposium on Stabilization, Safety, and Security of Distributed Systems (SSS 2021) held virtually in November 2021. The 16 full papers, 10 short, and 14 invited papers presented were carefully reviewed and selected from 56 submissions. The papers deal with the design and development of distributed systems with a focus on systems that are able to provide guarantees on their structure, performance, and/or security in the face of an adverse operational environment.

Progress in Cryptology - INDOCRYPT 2006 Rana Barua, 2006-11-27. This book constitutes the refereed proceedings of the

7th International Conference on Cryptology in India INDOCRYPT 2006 held in Kolkata India in December 2006 The 29 revised full papers and 2 invited papers cover such topics as symmetric cryptography provable security fast implementation of public key cryptography id based cryptography as well as embedded systems and side channel attacks Developing Secure Distributed Systems with CORBA Ulrich Lang,Rudolf Schreiner,2002 This new book is a clearly written well structured guide to building secure distributed applications with CORBA It helps securing CORBA applications integrating security infrastructure with CORBA applications and evaluating the security effectiveness of distributed applications You get a comprehensive study of the CORBA security architecture providing you with a better understanding of its goals and limitations It serves as your complete reference for understanding security in distributed systems *Proceedings* ,2002 This text contains information on database and information systems presented at the 5th IEEE international symposium on Object Oriented Real Time Distributed Computing ISORC 2002 Reliable Distributed Computing with the Isis Toolkit Kenneth P. Birman,Robbert Van Renesse,1994 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 Building Secure and Reliable Network Applications Kenneth P. Birman,1996 Semantic Web Services: Theory, Tools and Applications Cardoso, Jorge,2007-03-31 This book brings together researchers scientists and representatives from different communities to study understand and explore the theory tools and applications of the semantic Web It joins the semantic Web ontologies knowledge management Web services and Web processes into one fully comprehensive resource serving as the platform for exchange of both practical technologies and research Provided by publisher *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 **11th International Symposium on High Performance Distributed Computing** ,2002 Forty two full papers from the July 2002 conference in Edinburgh discuss data servers and grid storage adapting to grid behavior grid resource management applications frameworks parallel application analysis optimizing grid performance grid practice and experience communication and RPC protocols grid job submission and scheduling and adapti **Analele Științifice Ale Universității "Al. I. Cuza" Din Iași** ,2001 **Grid and Cooperative Computing** ,2004 *Resources in Parallel and Concurrent Systems* ,1991 Computer Systems Organization Parallel architecture Reliable Distributed Systems Amy Elser,2005-03-25 Explains fault tolerance

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