Christian Cachin
Rachid Guerraoui
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Introduction to

Reliable and Secure Distributed Programming

Second Edition

Springer

Introduction To Reliable And Secure Distributed Programming

Patrick Vollmar

Introduction To Reliable And Secure Distributed Programming:

Introduction to Reliable and Secure Distributed Programming Christian Cachin,Rachid Guerraoui,Luís Rodrigues,2011-02-11 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

Understanding Distributed Systems, Second Edition Roberto Vitillo,2022-02-23 Learning to build distributed systems is hard especially if they are large scale It s not that there is a lack of information out there You can find academic papers engineering blogs and even books on the subject The problem is that the available information is spread out all over the place and if you were to put it on a spectrum from theory to practice you would find a lot of material at the two ends but not much in the middle That is why I decided to write a book that brings together the core theoretical and practical concepts of distributed systems so that you don t have to spend hours connecting the dots This book will guide you through the fundamentals of large scale distributed systems with just enough details and external references to dive deeper This is the guide I wished existed when I first started out based on my experience building large distributed systems that scale to millions of requests per second and billions of devices If you are a developer working on the backend of web or mobile applications or would like to be this book is for you When building distributed applications you need to be familiar with the network stack data consistency models scalability and reliability patterns observability best practices and much more Although you can build applications without knowing much of that you will end up spending hours debugging and re architecting them learning hard lessons that you could have acquired in a much faster and less painful way However if you have several years of experience designing and building highly available and fault tolerant applications that scale to millions of users this book might not be for you As an expert you are likely looking for depth rather than breadth and this book focuses more on the latter since it would be impossible to cover the field otherwise The second edition is a complete rewrite of the previous edition Every page of the first edition has been reviewed and where appropriate reworked with new topics

covered for the first time **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 *Stabilization, Safety, and Security of Distributed Systems* Stéphane Devismes,Neeraj Mittal,2020-11-24 This book constitutes the refereed proceedings of the 22nd International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2020 held in Austin TX USA in November 2020 The 16 full papers 7 short and 2 invited papers presented were carefully reviewed and selected from 44 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

Concurrent Programming: Algorithms, Principles, and Foundations Michel Raynal,2012-12-30 This book is devoted to the most difficult part of concurrent programming namely synchronization concepts techniques and principles when the cooperating entities are asynchronous communicate through a shared memory and may experience failures Synchronization is no longer a set of tricks but due to research results in recent decades it relies today on sane scientific foundations as explained in this book In this book the author explains synchronization and the implementation of concurrent objects presenting in a uniform and comprehensive way the major theoretical and practical results of the past 30 years Among the key features of the book are a new look at lock based synchronization mutual exclusion semaphores monitors path expressions an introduction to the atomicity consistency criterion and its properties and a specific chapter on transactional memory an introduction to mutex freedom and associated progress conditions such as obstruction freedom and wait freedom a presentation of Lamport s hierarchy of safe regular and atomic registers and associated wait free constructions a description of numerous wait free constructions of concurrent objects queues stacks weak counters snapshot objects renaming objects etc a presentation of the computability power of concurrent objects including the notions of universal construction consensus number and the associated Herlihy s hierarchy and a survey of failure detector based constructions of consensus objects The book is suitable for advanced undergraduate students and graduate students in computer science or computer engineering graduate students in mathematics interested in the foundations of process synchronization and practitioners and engineers who need to produce correct concurrent software The reader should have a basic knowledge of algorithms and operating systems **Stabilization, Safety, and Security of Distributed Systems** Pascal Felber,Vijay Garg,2014-09-23 This book constitutes the refereed proceedings of the 16 International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2013 held in Osaka Japan in September October 2014 The 21 regular papers and 8

short papers presented were carefully reviewed and selected from 44 submissions The Symposium is organized in several tracks reflecting topics to self properties The tracks are self stabilization ad hoc sensor and mobile networks cyberphysical systems fault tolerant and dependable systems formal methods safety and security and cloud computing P2P self organizing and autonomous systems **Principles of Distributed Systems** Marcos K. Aguilera,Leonardo Querzoni,Marc Shapiro,2014-12-09 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 Topics in Cryptology – CT-RSA 2020 Stanislaw Jarecki,2020-02-14 This book constitutes the refereed proceedings of the Cryptographer s Track at the RSA Conference 2020 CT RSA 2020 held in San Francisco CA USA in February 2020 The 28 papers presented in this volume were carefully reviewed and selected from 95 submissions CT RSA is the track devoted to scientific papers on cryptography public key to symmetric key cryptography and from crypto graphic protocols to primitives and their implementation security

Principles of Blockchain Systems Antonio Fernández Anta,Chryssis Georgiou,Maurice Herlihy,Maria Potop-Butucaru,2022-05-31 This book is the first to present the state of the art and provide technical focus on the latest advances in the foundations of blockchain systems It is a collaborative work between specialists in cryptography distributed systems formal languages and economics and addresses hot topics in blockchains from a theoretical perspective cryptographic primitives consensus formalization of blockchain properties game theory applied to blockchains and economical issues This book reflects the expertise of the various authors and is intended to benefit researchers students and engineers who seek an understanding of the theoretical foundations of blockchains *Concurrency* Dahlia Malkhi,2019-09-16 This book is a celebration of Leslie Lamport s work on concurrency interwoven in four and a half decades of an evolving industry from the introduction of the first personal computer to an era when parallel and distributed multiprocessors are abundant His works lay formal foundations for concurrent computations executed by interconnected computers Some of the algorithms have become standard engineering practice for fault tolerant distributed computing distributed systems that continue to function correctly despite failures of individual components He also developed a substantial body of work on the formal specification and verification of concurrent systems and has contributed to the development of automated tools applying these methods Part I consists of technical chapters of the book and a biography The technical chapters of this book present a retrospective on Lamport s original ideas from experts in the field Through this lens it portrays their long lasting impact The chapters cover timeless notions Lamport introduced the Bakery algorithm atomic shared registers and sequential consistency causality and logical time Byzantine Agreement state machine replication and

Paxos temporal logic of actions TLA The professional biography tells of Lamport s career providing the context in which his work arose and broke new grounds and discusses LaTeX perhaps Lamport s most influential contribution outside the field of concurrency This chapter gives a voice to the people behind the achievements notably Lamport himself and additionally the colleagues around him who inspired collaborated and helped him drive worldwide impact Part II consists of a selection of Leslie Lamport s most influential papers This book touches on a lifetime of contributions by Leslie Lamport to the field of concurrency and on the extensive influence he had on people working in the field It will be of value to historians of science and to researchers and students who work in the area of concurrency and who are interested to read about the work of one of the most influential researchers in this field *Distributed Computing* Yoram Moses,2015-10-03 This book constitutes the proceedings of the 29th International Symposium on Distributed Computing DISC 2015 held in Tokyo Japan in October 2015 The 42 full papers presented in this volume were carefully reviewed and selected from 143 submissions The papers feature original contributions to theory design implementation modeling analysis or application of distributed systems and networks A number of 14 two page brief announcements are included in the back matter of the proceedings Parallel and Distributed Processing Techniques Hamid R. Arabnia,Masami Takata,Leonidas Deligiannidis,Pablo Rivas,Masahito Ohue,Nobuaki Yasuo,2025-03-25 This book constitutes the proceedings of the 30th International Conference on Parallel and Distributed Processing Techniques PDPTA 2024 held as part of the 2024 World Congress in Computer Science Computer Engineering and Applied Computing in Las Vegas USA during July 22 to July 25 2024 The 24 papers included in this book were carefully reviewed and selected from 143 submissions They have been organized in topical sections as follows Parallel and distributed processing techniques and applications and HPC and Workshop on Mathematical Modeling and Problem Solving Database Internals Alex Petrov,2019-09-13 When it comes to choosing using and maintaining a database understanding its internals is essential But with so many distributed databases and tools available today it s often difficult to understand what each one offers and how they differ With this practical guide Alex Petrov guides developers through the concepts behind modern database and storage engine internals Throughout the book you ll explore relevant material gleaned from numerous books papers blog posts and the source code of several open source databases These resources are listed at the end of parts one and two You ll discover that the most significant distinctions among many modern databases reside in subsystems that determine how storage is organized and how data is distributed This book examines Storage engines Explore storage classification and taxonomy and dive into B Tree based and immutable Log Structured storage engines with differences and use cases for each Storage building blocks Learn how database files are organized to build efficient storage using auxiliary data structures such as Page Cache Buffer Pool and Write Ahead Log Distributed systems Learn step by step how nodes and processes connect and build complex communication patterns Database clusters Which consistency models are commonly used by modern databases and how distributed storage systems achieve consistency **Networked Systems**

Mohammed-Amine Koulali,Mira Mezini,2022-09-27 This book constitutes the revised selected papers of the 10th International Conference on Networked Systems NETYS 2022 held as virtual event in May 17 19 2022 The conference was held virtually due to the COVID 19 crisis The 18 full papers and 2 short papers presented were carefully reviewed and selected from 100 submissions The scope of the conference covers all aspects related to the design and the development of these systems including multi core architectures Concurrent and distributed algorithms parallel concurrent distributed programming distributed databases big data applications and systems cloud systems networks security and formal verification They were organized in topical sections as follows Distributed System Networking Verification Security

Euro-Par 2015: Parallel Processing Workshops Sascha Hunold,Alexandru Costan,Domingo Giménez,Alexandru Iosup,Laura Ricci,María Engracia Gómez Requena,Vittorio Scarano,Ana Lucia Varbanescu,Stephen L. Scott,Stefan Lankes,Josef Weidendorfer,Michael Alexander,2015-12-17 This book constitutes the thoroughly refereed post conference proceedings of 12 workshops held at the 21st International Conference on Parallel and Distributed Computing Euro Par 2015 in Vienna Austria in August 2015 The 67 revised full papers presented were carefully reviewed and selected from 121 submissions The volume includes papers from the following workshops BigDataCloud 4th Workshop on Big Data Management in Clouds Euro EDUPAR First European Workshop on Parallel and Distributed Computing Education for Undergraduate Students Hetero Par 13th International Workshop on Algorithms Models and Tools for Parallel Computing on Heterogeneous Platforms LSDVE Third Workshop on Large Scale Distributed Virtual Environments OMHI 4th International Workshop on On chip Memory Hierarchies and Interconnects PADAPS Third Workshop on Parallel and Distributed Agent Based Simulations PELGA Workshop on Performance Engineering for Large Scale Graph Analytics REPPAR Second International Workshop on Reproducibility in Parallel Computing Resilience 8th Workshop on Resiliency in High Performance Computing in Clusters Clouds and Grids ROME Third Workshop on Runtime and Operating Systems for the Many Core Era UCHPC 8th Workshop on UnConventional High Performance Computing and VHPC 10th Workshop on Virtualization in High Performance Cloud Computing **Financial Cryptography and Data Security** Ittay Eyal,Juan Garay,2022-10-21 This book constitutes revised selected papers from the proceedings of the 26th International Conference on Financial Cryptography and Data Security FC 2022 which was held in Grenada during May 2022 The 32 full papers and 4 short papers included in this book were carefully reviewed andselected from 159 submissions They were organized in topical sections as follows tokenomics MPC mostly privacy ZKP old school consensus mostly payment networks incentives not proof of work performance measurements *Distributed Applications and Interoperable Systems* Daniel Balouek,Ibéria Medeiros,2025-06-14 This book constitutes the refereed proceedings of the 25th IFIP WG 6 1 International Conference on Distributed Applications and Interoperable Systems DAIS 2025 held in Lille France as Part of the 20th International Federated Conference on Distributed Computing Techniques DisCoTec 2025 during June 16 20 2025 The 7 full papers

included in this book were carefully reviewed and selected from 16 submissions They focus on all practical and conceptual aspects of distributed applications including their design modeling implementation and operation the supporting middleware appropriate software engineering methodologies and tools and experimental studies and applications Computing Handbook Teofilo Gonzalez,Jorge Diaz-Herrera,Allen Tucker,2014-05-07 The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals **Computing Handbook** Allen Tucker,Teofilo Gonzalez,Heikki Topi,Jorge Diaz-Herrera,2022-05-29 This two volume set of the Computing Handbook Third Edition previously theComputer Science Handbook provides up to date information on a wide range of topics in computer science information systems IS information technology IT and software engineering The third edition of this popular handbook addresses not only the dramatic growth of computing as a discipline but also the relatively new delineation of computing as a family of separate disciplines as described by the Association for Computing Machinery ACM the IEEE Computer Society IEEE CS and the Association for Information Systems AIS Both volumes in the set describe what occurs in research laboratories educational institutions and public and private organizations to advance the effective development and use of computers and computing in today s world Research level survey articles provide deep insights into the computing discipline enabling readers to understand the principles and practices that drive computing education research and development in the twenty first century Chapters are organized with minimal interdependence so that they can be read in any order and each volume contains a table of contents and subject index offering easy access to specific topics The first volume of this popular handbook mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery ACM and the IEEE Computer Society IEEE CS Written by established leading experts and influential young researchers it examines the elements involved in designing and implementing software new areas in which computers are being used and ways to solve computing problems The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals The second volume of this popular handbook demonstrates the richness and breadth of the IS and IT disciplines The book explores their close links to the practice of using managing and developing IT based solutions to advance the goals of modern organizational environments Established leading experts and influential young researchers present introductions to the current status and future directions of research and give in depth perspectives on the contributions of academic research to the practice of IS and IT development use and management *Intelligent and Cloud Computing* Debahuti

Mishra,Rajkumar Buyya,Prasant Mohapatra,Srikanta Patnaik,2020-08-28 This book features a collection of high quality research papers presented at the International Conference on Intelligent and Cloud Computing ICICC 2019 held at Siksha O Anusandhan Deemed to be University Bhubaneswar India on December 20 2019 Including contributions on system and network design that can support existing and future applications and services it covers topics such as cloud computing system and network design optimization for cloud computing networking and applications green cloud system design cloud storage design and networking storage security cloud system models big data storage intra cloud computing mobile cloud system design real time resource reporting and monitoring for cloud management machine learning data mining for cloud computing data driven methodology and architecture and networking for machine learning systems

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