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Parallel Computing Technologies Victor Malyshkin,2021-09-06 This book constitutes the proceedings of the 16th International Conference on Parallel Computing Technologies PaCT 2021 which was held during September 13 18 2021 The conference was planned to take place in Kaliningrad Russia but changed to an online event due to the COVID 19 pandemic The 24 full and 12 short papers included in this book were carefully reviewed and selected from 62 submissions They were organized in topical sections as follows parallel programming methods and tools applications memory efficient data structures experimental studies job management essential algorithms computing services and cellular automata

Principles of Distributed Systems James H. Anderson,Giuseppe Prencipe,Roger Wattenhofer,2007-01-23 This book constitutes the refereed post proceedings of the 9th International Conference on Principles of Distributed Systems OPODIS 2005 held in Pisa Italy in December 2005 The volume presents 30 revised full papers and abstracts of 2 invited talks The papers are organized in topical sections on nonblocking synchronization fault tolerant broadcast and consensus self stabilizing systems peer to peer systems and collaborative environments sensor networks and mobile computing security and verification real time systems and peer to peer systems *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

Handbook of Data Structures and Applications Dinesh P. Mehta,Sartaj Sahni,2018-02-21 The Handbook of Data Structures and Applications was first published over a decade ago This second edition aims to update the first by focusing on areas of research in data structures that have seen significant progress While the discipline of data structures has not matured as rapidly as other areas of computer science the book aims to update those areas that have seen advances Retaining the seven part structure of the first edition the handbook begins with a review of introductory material followed by a discussion of well known classes of data structures Priority Queues Dictionary Structures and Multidimensional structures The editors next analyze miscellaneous data structures which are well known structures that elude easy classification The book then addresses mechanisms and tools that were developed to facilitate the use of data structures in real programs It concludes with an examination of the applications of data structures Four new chapters have been added on Bloom Filters Binary Decision Diagrams Data Structures for Cheminformatics and Data Structures for Big Data Stores and updates have been made to other chapters that appeared in the first edition The Handbook is invaluable for suggesting new ideas for research in data structures and for revealing application contexts in which they can be deployed Practitioners devising algorithms will gain insight into organizing data allowing them to solve algorithmic problems more efficiently

Middleware 2011 Fabio Kon,Anne-Marie Kermarrec,2011-12-02 This book constitutes the refereed proceedings of the ACM IFIP USENIX 12th International Middleware Conference held in Lisbon Portugal in December 2011 The 22 revised full papers presented together with 2 industry papers and an invited paper were carefully reviewed and selected from 125 submissions The papers are organized in topical sections on social networks storage and performance management green computing and resource management notification and streaming replication and caching security and interoperability and run time re configuration and inspection   **Emerging Technology and Architecture for Big-data Analytics** Anupam Chattopadhyay,Chip Hong Chang,Hao Yu,2017-04-19 This book describes the current state of the art in big data analytics from a technology and hardware architecture perspective The presentation is designed to be accessible to a broad audience with general knowledge of hardware design and some interest in big data analytics Coverage includes emerging technology and devices for data analytics circuit design for data analytics and architecture and algorithms to support data analytics Readers will benefit from the realistic context used by the authors which demonstrates what works what doesn t work and what are the fundamental problems solutions upcoming challenges and opportunities Provides a single source reference to hardware architectures for big data analytics Covers various levels of big data analytics hardware design abstraction and flow from device to circuits and systems Demonstrates how non volatile memory NVM based hardware platforms can be a viable solution to existing challenges in hardware architecture for big data analytics   **Proceedings of the ... ACM SIGPLAN Symposium on Principles & Practice of Parallel Programming** ,2007   Proceedings of the ... Annual ACM Symposium on Principles of Distributed Computing ,2005   **Proceedings of the Twenty-Second Annual ACM Symposium on Principles of Distributed Computing** ,2003 This paper presents an efficient asynchronous protocol to compute RSA inverses with respect to a public RSA modulus N whose factorization is secret and shared among a group of parties Given two numbers x and e the protocol computes y such that ye x mod N A synchronous protocol for this task has been presented by Catalano Gennaro and Halevi Eurocrypt 2000 but the standard approach for turning this into an asynchronous protocol would require a Byzantine agreement sub protocol Our protocol adopts their approach but exploits a feature of the problem in order to avoid the use of a Byzantine agreement primitive Hence it leads to efficient asynchronous protocols for threshold signatures and for Byzantine agreement based on the strong RSA assumption without the use of random oracles   **Synchronization Algorithms and Concurrent Programming** Gadi Taubenfeld,2006 The first textbook that focuses purely on Synchronization a fundamental challenge in Computer Science that is fast becoming a major performance and design issue for concurrent programming on modern architectures and for the design of distributed systems   **Dr. Dobb's Journal** ,2008   Concurrent Programming in Java Douglas Lea,1997 This book provides you with detailed information and expert techniques that will enable you to exploit the many advantages of concurrent programming and create multi threaded Java applications that are more responsive to user demands faster and more easily controlled

Taking a design pattern approach the book offers numerous standard design techniques for creating and implementing Java structures that solve common concurrent programming challenges Doug Lea is Professor of computer Science at SUNY Oswego Co director of the Software Engineering Lab at the New York Center for Advanced Technology in Computer Applications and Adjunct Professor of Electrical and Computer Engineering at Syracuse University **PPoPP '08** ,2008 **ACM Transactions on Software Engineering and Methodology** ,2000 **Conference Record of POPL 2001** ,2001 **Proceedings, ... International Parallel Processing Symposium & ... Symposium on Parallel and Distributed Processing** ,2000 **JAVA Developer's Journal** ,1996 **Proceedings** ,1997 *The Java Tutorial Continued* Mary Campione,Kathy Walrath,Alison Huml,1999 This book is a collection of tutorials written by Java Team members experts who are the authority in their areas of the Java platform This book is a self paced example driven tutorial approach to JDK 1 2 hot topics You ll find coverage of new topics such as collections internationalization advanced 2D graphics sound JavaBeans security servlets JDBC IDL RMI JAR standard extensions JNI reflection and reference objects The CD itself is a gold mine It contains this book and The Java Tutorial Second Edition in HTML format plus a combined index and JDK 1 2 **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,2006

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