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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 and 14 short 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.
Distributed Computing - Jennifer L. Welch 2003-06-30
This book consitutes the refereed proceedings of the 15th International Conference on Distributed Computing, DISC 2001, held in Lisbon, Portugal, in October 2001. The 23 revised papers presented were carefully reviewed and selected from 70 submissions. Among the issues addressed are mutual exclusion, anonymous networks, distributed files systems, information diffusion, computation slicing, commit services, renaming, mobile search, randomized mutual search, message-passing networks, distributed queueing, leader election algorithms, Markov chains, network routing, ad-hoc mobile networks, and adding networks.
Distributed Computing and Networking - Davide Frey 2013-01-05
This book constitutes the refereed proceedings of the 14th International Conference on Distributed Computing and Networking, ICDCN 2013, held in Mumbai, India, during January 3-6, 2013. The 27 revised full papers, 5 short papers presented together with 7 poster papers were carefully reviewed and selected from 149 submissions. The papers cover topics such as distributed algorithms and concurrent data structures; integration of heterogeneous wireless and wired networks; distributed operating systems; internetworking protocols and internet applications; distributed database systems; mobile and pervasive computing, context-aware distributed systems; embedded distributed systems; next generation and converged network architectures; experiments and performance evaluation of distributed systems; overlay and peer-to-peer networks and services; fault-tolerance, reliability, and availability; home networking and services; multiprocessor and multi-core architectures and algorithms; resource management and quality of service; self-organization, self-stabilization, and

autonomic computing; network security and privacy; high performance computing, grid computing, and cloud computing; energy-efficient networking and smart grids; security, cryptography, and game theory in distributed systems; sensor, PAN and ad-hoc networks; and traffic engineering, pricing, network management.

Distributed Computing - Ajay D. Kshemkalyani 2011-03-03

Designing distributed computing systems is a complex process requiring a solid understanding of the design problems and the theoretical and practical aspects of their solutions. This comprehensive textbook covers the fundamental principles and models underlying the theory, algorithms and systems aspects of distributed computing. Broad and detailed coverage of the theory is balanced with practical systems-related issues such as mutual exclusion, deadlock detection, authentication, and failure recovery. Algorithms are carefully selected, lucidly presented, and described without complex proofs. Simple explanations and illustrations are used to elucidate the algorithms. Important emerging topics such as peer-to-peer networks and network security are also considered. With vital algorithms, numerous illustrations, examples and homework problems, this textbook is suitable for advanced undergraduate and graduate students of electrical and computer engineering and computer science. Practitioners in data networking and sensor networks will also find this a valuable resource. Additional resources are available online at www.cambridge.org/9780521876346.

Distributed Computing - Dahlia Malkhi 2002-10-14

This book constitutes the refereed proceedings of the 16th International Conference on Distributed Computing, DISC 2002, held in Toulouse, France, in October 2002. The 24 revised full papers presented were carefully reviewed and selected from 76 submissions. Among the issues addressed are broadcasting, secure computation, view maintenance, communication protocols, distributed agreement, self-stabilizing algorithms, message-passing systems, dynamic networks, condition monitoring systems, shared memory computing, Byzantine processes, routing, failure detection, compare-and-swap operations, cooperative computation, and consensus algorithms.

Distributed Computing - Cyril Gavoille 2016-09-05

This book constitutes the proceedings of the 30th International Symposium on Distributed Computing, DISC 2016, held in Paris, France, in September 2016. The 32 full papers, 10 brief annoucements and 3 invited lectures presented in this volume were carefully reviewed and selected from 145 submissions.The focus of the conference is on following topics: theory, design, implementation, modeling, analysis, or application of distributed systems and networks.

Parallel Combinatorial Optimization - El-Ghazali Talbi 2006-10-27

This text provides an excellent balance of theory and application that enables you to deploy powerful algorithms, frameworks, and methodologies to solve complex optimization problems in a diverse range of industries. Each chapter is written by leading experts in the fields of parallel and distributed optimization. Collectively, the contributions serve as a complete reference to the field of combinatorial optimization, including details and findings of recent and ongoing investigations.

Distributed Computing and Networking - Marcos K. Aguilera 2011-03-09

This book constitutes the refereed proceedings of the 12th International Conference on Distributed Computing and Networking, ICDCN 2011, held in Bangalore, India, during January 2-5, 2011. The 31 revised full papers and 3 revised short papers presented together with 3 invited lectures were carefully reviewed and selected from 140 submissions. The papers address all current issues in the field of distributed computing and networking. Being a leading forum for researchers and practitioners to exchange ideas and share best practices, ICDCN also serves as a forum for PhD students to share their research ideas and get quality feedback from the well-renowned experts in the field.

Distributed Computing - Spain) Disc 200 (2000 Toledo 2000-09-20

This book constitutes the refereed proceedings of the 14th International Conference on Distributed Computing, DISC 2000, held in Toledo, Spain in October 2000. The 23 revised

full papers presented together with one invited contribution were carefully reviewed and selected from more than 100 submissions. The papers address a variety of current issues in distributed computing including mutual exclusion, distributed algorithms, protocols, approximation algorithms, distributed cooperation, electronic commerce, self-stabilizing algorithms, lower bounds, networking, broadcasting, Internet services, interconnection networks, distributed objects, CORBA, etc.

Distributed Computing - Hagit Attiya 2004-03-25

* Comprehensive introduction to the fundamental results in the mathematical foundations of distributed computing * Accompanied by supporting material, such as lecture notes and solutions for selected exercises * Each chapter ends with bibliographical notes and a set of exercises * Covers the fundamental models, issues and techniques, and features some of the more advanced topics

Distributed Computing Through Combinatorial Topology - Maurice Herlihy 2013-11-30

Distributed Computing Through Combinatorial Topology describes techniques for analyzing distributed algorithms based on award winning combinatorial topology research. The authors present a solid theoretical foundation relevant to many real systems reliant on parallelism with unpredictable delays, such as multicore microprocessors, wireless networks, distributed systems, and Internet protocols. Today, a new student or researcher must assemble a collection of scattered conference publications, which are typically terse and commonly use different notations and terminologies. This book provides a self-contained explanation of the mathematics to readers with computer science backgrounds, as well as explaining computer science concepts to readers with backgrounds in applied mathematics. The first section presents mathematical notions and models, including message passing and shared-memory systems, failures, and timing models. The next section presents core concepts in two chapters each: first, proving a simple result that lends itself to examples and pictures that will build up readers' intuition; then generalizing the concept to prove a more sophisticated result. The overall result weaves together and develops the basic concepts of the field, presenting them in a gradual and intuitively appealing way. The book's final section discusses advanced topics typically found in a graduate-level course for those who wish to explore further. Named a 2013 Notable Computer Book for Computing Methodologies by Computing Reviews Gathers knowledge otherwise spread across research and conference papers using consistent notations and a standard approach to facilitate understanding Presents unique insights applicable to multiple computing fields, including multicore microprocessors, wireless networks, distributed systems, and Internet protocols Synthesizes and distills material into a simple, unified presentation with examples, illustrations, and exercises

Distributed Computing - Fabian Kuhn 2014-09-29

This book constitutes the proceedings of the 28th International Symposium on Distributed Computing, DISC 2014, held in Austin, TX, USA, in October 2014. The 35 full papers presented in this volume were carefully reviewed and selected from 148 full paper submissions. In the back matter of the volume a total of 18 brief announcements is presented. The papers are organized in topical sections named: concurrency; biological and chemical networks; agreement problems; robot coordination and scheduling; graph distances and routing; radio networks; shared memory; dynamic and social networks; relativistic systems; transactional memory and concurrent data structures; distributed graph algorithms; and communication.

Large-scale Distributed Systems and Energy Efficiency - Jean-Marc Pierson 2015-04-06

Addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems and networks With concerns about global energy consumption at an all-time high, improving computer networks energy efficiency is becoming an increasingly important topic. Large-Scale Distributed Systems and Energy Efficiency: A Holistic View addresses innovations in technology relating to the energy efficiency of a wide variety of contemporary computer systems

and networks. After an introductory overview of the energy demands of current Information and Communications Technology (ICT), individual chapters offer in-depth analyses of such topics as cloud computing, green networking (both wired and wireless), mobile computing, power modeling, the rise of green data centers and high-performance computing, resource allocation, and energy efficiency in peer-to-peer (P2P) computing networks. Discusses measurement and modeling of the energy consumption method Includes methods for energy consumption reduction in diverse computing environments Features a variety of case studies and examples of energy reduction and assessment Timely and important, Large-Scale Distributed Systems and Energy Efficiency is an invaluable resource for ways of increasing the energy efficiency of computing systems and networks while simultaneously reducing the carbon footprint.

Advanced Computational Infrastructures for Parallel and Distributed Adaptive Applications - Manish Parashar 2010-01-05

A unique investigation of the state of the art in design, architectures, and implementations of advanced computational infrastructures and the applications they support Emerging large-scale adaptive scientific and engineering applications are requiring an increasing amount of computing and storage resources to provide new insights into complex systems. Due to their runtime adaptivity, these applications exhibit complicated behaviors that are highly dynamic, heterogeneous, and unpredictable—and therefore require full-fledged computational infrastructure support for problem solving, runtime management, and dynamic partitioning/balancing. This book presents a comprehensive study of the design, architecture, and implementation of advanced computational infrastructures as well as the adaptive applications developed and deployed using these infrastructures from different perspectives, including system architects, software engineers, computational scientists, and application scientists. Providing insights into recent research efforts and projects, the authors include descriptions and experiences pertaining to the realistic modeling of adaptive applications on parallel and distributed systems. The first part of the book focuses on high-performance adaptive scientific applications and includes chapters that describe high-impact, real-world application scenarios in order to motivate the need for advanced computational engines as well as to outline their requirements. The second part identifies popular and widely used adaptive computational infrastructures. The third part focuses on the more specific partitioning and runtime management schemes underlying these computational toolkits. Presents representative problem-solving environments and infrastructures, runtime management strategies, partitioning and decomposition methods, and adaptive and dynamic applications Provides a unique collection of selected solutions and infrastructures that have significant impact with sufficient introductory materials Includes descriptions and experiences pertaining to the realistic modeling of adaptive applications on parallel and distributed systems The cross-disciplinary approach of this reference delivers a comprehensive discussion of the requirements, design challenges, underlying design philosophies, architectures, and implementation/deployment details of advanced computational infrastructures. It makes it a valuable resource for advanced courses in computational science and software/systems engineering for senior undergraduate and graduate students, as well as for computational and computer scientists, software developers, and other industry professionals.

DISTRIBUTED COMPUTING: FUNDAMENTALS, SIMULATIONS AND ADVANCED TOPICS, 2ND ED - Attiya 2006-08

About The Book: This book offers comprehensive introduction to the fundamental results in the mathematical foundations of distributed computing. It is accompanied by supporting material, such as lecture notes and solutions for selected exercises. Each chapter ends with bibliographical notes and a set of exercises. It also Covers the fundamental models, issues and techniques, and features some of the more advanced topics.

Large-Scale Computing Techniques for Complex System Simulations - Werner Dubitzky 2011-11-22

Complex systems modeling and simulation approaches are being adopted in a growing

number of sectors, including finance, economics, biology, astronomy, and many more. Technologies ranging from distributed computing to specialized hardware are explored and developed to address the computational requirements arising in complex systems simulations. The aim of this book is to present a representative overview of contemporary large-scale computing technologies in the context of complex systems simulations applications. The intention is to identify new research directions in this field and to provide a communications platform facilitating an exchange of concepts, ideas and needs between the scientists and technologist and complex system modelers. On the application side, the book focuses on modeling and simulation of natural and man-made complex systems. On the computing technology side, emphasis is placed on the distributed computing approaches, but supercomputing and other novel technologies are also considered.

Distributed Computing - Pierre Fraigniaud 2005-10-11

This book constitutes the refereed proceedings of the 19th International Conference on Distributed Computing, DISC 2005, held in Cracow, Poland, in September 2005. The 32 revised full papers selected from 162 submissions are presented together with 14 brief announcements of ongoing works chosen from 30 submissions; all of them were carefully selected for inclusion in the book. The entire scope of current issues in distributed computing is addressed, ranging from foundational and theoretical topics to algorithms and systems issues and to applications in various fields.

Impossibility Results for Distributed Computing - Hagit Attiya 2014-05-01

To understand the power of distributed systems, it is necessary to understand their inherent limitations: what problems cannot be solved in particular systems, or without sufficient resources (such as time or space). This book presents key techniques for proving such impossibility results and applies them to a variety of different problems in a variety of different system models. Insights gained from these results are highlighted, aspects of a problem that make it difficult are isolated, features of an architecture that make it inadequate for solving certain problems efficiently are identified, and different system models are compared. Table of Contents: Acknowledgments / Introduction / Indistinguishability / Shifting and Scaling / Scenario Arguments / Information Theory Arguments / Covering Arguments / Valency Arguments / Combinatorial Arguments / Reductions and Simulations / Bibliography / Authors' Biographies

Distributed Computing - David Peleg 2000-01-01

Gives a thorough exposition of network spanners and other locality-preserving network representations such as sparse covers and partitions.

Modeling and Simulation of Distributed Systems - Alexander Kostin 2010-06-28

CD-ROM with a simulation system and numerous solved models is attached to the book. Distributed systems are a continuously expanding area of computer science and computer engineering. This book addresses the need for literature on modeling and simulation techniques for distributed systems. For simulation modeling of distributed systems in the book, a specific class of extended Petri nets is used that allows to easily represent the fundamental processes of any distributed system. The book is intended, first of all, as a text for related graduate-level university courses on distributed systems in computer science and computer engineering. Other computer science and computer engineering courses would also find the book useful as a source of practical information for a broad community of those graduate students who are busy with simulation in their study and research. The book can be useful also to academics who give related graduate courses or deliver research-oriented modules for graduate students. Further, the book can be helpful to system architects and developers who apply modeling and simulation techniques as a step in the design and implementation of their systems. Containing a large number of models, with commented source texts and simulation results on the attached CD-ROM, it can also serve as valuable reference book for researchers who want to develop their own models in terms of Petri nets.

Distributed Computing - Idit Keidar

2009-09-29
This book constitutes the refereed proceedings of the 23nd International Symposium on Distributed Computing, DISC 2009, held in Elche, Spain, in September 2009. The 33 revised full papers, selected from 121 submissions, are presented together with 15 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, and were organized in topical sections on Michel Raynal and Shmuel Zaks 60th birthday symposium, award nominees, transactional memory, shared memory, distributed and local graph algorithms, modeling issues, game theory, failure detectors, from theory to practice, graph algorithms and routing, consensus and byzantine agreement and radio networks.

Distributed Computing - Dr. K. Ramesh Kumar

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 - Marcos K. Aguilera 2012-10-14
This book constitutes the refereed proceedings of the 26th International Symposium on Distributed Computing, DISC 2012, held in Salvador, Brazil, in October 2012. The 27 revised full papers presented together with 24 brief announcements were carefully reviewed and selected from 119 submissions. The papers are organized in topical sections on shared memory, mobile agents and overlay networks, wireless and multiple access channel networks, dynamic networks, distributed graph algorithms, wireless and loosely connected networks, robots, and lower bounds and separation.

Task Scheduling for Parallel Systems - Oliver Sinnen 2007-05-18
A new model for task scheduling that dramatically improves the efficiency of parallel systems Task scheduling for parallel systems can become a quagmire of heuristics, models, and methods that have been developed over the past decades. The author of this innovative text cuts through the confusion and complexity by presenting a consistent and comprehensive theoretical framework along with realistic parallel system models. These new models, based on an investigation of the concepts and principles underlying task scheduling, take into account heterogeneity, contention for communication resources, and the involvement of the processor in communications. For readers who may be new to task scheduling, the first

chapters are essential. They serve as an excellent introduction to programming parallel systems, and they place task scheduling within the context of the program parallelization process. The author then reviews the basics of graph theory, discussing the major graph models used to represent parallel programs. Next, the author introduces his task scheduling framework. He carefully explains the theoretical background of this framework and provides several examples to enable readers to fully understand how it greatly simplifies and, at the same time, enhances the ability to schedule. The second half of the text examines both basic and advanced scheduling techniques, offering readers a thorough understanding of the principles underlying scheduling algorithms. The final two chapters address communication contention in scheduling and processor involvement in communications. Each chapter features exercises that help readers put their new skills into practice. An extensive bibliography leads to additional information for further research. Finally, the use of figures and examples helps readers better visualize and understand complex concepts and processes. Researchers and students in distributed and parallel computer systems will find that this text dramatically improves their ability to schedule tasks accurately and efficiently.

Distributed Computing - IWDC 2003 - Samir R. Das 2004-01-23

This book constitutes the refereed proceedings of the 5th International Workshop on Distributed Computing, IWDC 2003, held in Kolkata, India in December 2003. The 32 revised full papers presented together with five invited papers were carefully reviewed and selected from a total of 105 submissions. The papers are organized in topical sections on distributed algorithms, internetworking and web, parallel and distributed systems, wireless and mobile networking, ad-hoc and sensor networks, learning and optimization, and optical networking

Distributed Computing - Shlomi Dolev 2006-09-18

This book constitutes the refereed proceedings of the 20th International Symposium on Distributed Computing, DISC 2006. The book presents 35 revised full papers together with 1 invited paper and 13 announcements of ongoing works, all carefully selected for inclusion in the book. The entire scope of current issues in distributed computing is addressed, ranging from foundational and theoretical topics to algorithms and systems issues and to applications in various fields.

Activity Learning - Diane J. Cook 2015-02-06

Defines the notion of an activity model learned from sensor data and presents key algorithms that form the core of the field Activity Learning: Discovering, Recognizing and Predicting Human Behavior from Sensor Data provides an in-depth look at computational approaches to activity learning from sensor data. Each chapter is constructed to provide practical, step-by-step information on how to analyze and process sensor data. The book discusses techniques for activity learning that include the following: Discovering activity patterns that emerge from behavior-based sensor data Recognizing occurrences of predefined or discovered activities in real time Predicting the occurrences of activities The techniques covered can be applied to numerous fields, including security, telecommunications, healthcare, smart grids, and home automation. An online companion site enables readers to experiment with the techniques described in the book, and to adapt or enhance the techniques for their own use. With an emphasis on computational approaches, Activity Learning: Discovering, Recognizing, and Predicting Human Behavior from Sensor Data provides graduate students and researchers with an algorithmic perspective to activity learning.

Distributed Computing - Faith Ellen Fich 2003-12-12

This book constitutes the refereed proceedings of the 17th International Conference on Distributed Computing, DISC 2003, held in Sorrento, Italy in October 2003. The 25 revised full papers presented were carefully reviewed and selected from 91 submissions. A broad variety of current issues in distributed computing is addressed, from foundational and theoretical issues to applications in various fields.

Design and Analysis of Distributed Algorithms - Nicola Santoro 2006-11-03

This text is based on a simple and fully reactive computational model that allows for intuitive

comprehension and logical designs. The principles and techniques presented can be applied to any distributed computing environment (e.g., distributed systems, communication networks, data networks, grid networks, internet, etc.). The text provides a wealth of unique material for learning how to design algorithms and protocols perform tasks efficiently in a distributed computing environment.

Impossibility Results for Distributed Computing - Hagit Attiya 2022-06-01

To understand the power of distributed systems, it is necessary to understand their inherent limitations: what problems cannot be solved in particular systems, or without sufficient resources (such as time or space). This book presents key techniques for proving such impossibility results and applies them to a variety of different problems in a variety of different system models. Insights gained from these results are highlighted, aspects of a problem that make it difficult are isolated, features of an architecture that make it inadequate for solving certain problems efficiently are identified, and different system models are compared.

Distributed Computing - DISC 2001 2001-09-19

This book consitutes the refereed proceedings of the 15th International Conference on Distributed Computing, DISC 2001, held in Lisbon, Portugal, in October 2001. The 23 revised papers presented were carefully reviewed and selected from 70 submissions. Among the issues addressed are mutual exclusion, anonymous networks, distributed files systems, information diffusion, computation slicing, commit services, renaming, mobile search, randomized mutual search, message-passing networks, distributed queueing, leader election algorithms, Markov chains, network routing, ad-hoc mobile networks, and adding networks.

Distributed Computing and Networking - Shrisha Rao 2008-02-06

This book constitutes the fully refereed proceedings of the 9th International Conference on Distributed Computing and Networking, ICDCN 2008 - formerly known as IWDC (International Workshop on Distributed Computing), held in Kolkata, India, in January 2008. The 30 revised full papers and 27 revised short papers presented together with 3 keynote talks and 1 invited lecture were carefully reviewed and selected from 185 submissions. The papers are organized in topical sections.

Distributed Computing - Maurice Herlihy 2003-07-31

DISC, the International Symposium on DIStributed Computing, is an annual forum for research presentations on all facets of distributed computing. DISC 2000 was held on4-6 October, 2000 in Toledo, Spain. This volume includes 23 contributed papers and the extended abstract of an invited lecture from last year's DISC. It is expected that the regular papers will later be submitted in a more polished form to fully refereed scienti?c journals. The extended abstracts of this year's invited lectures, by Jean-Claude Bermond and Sam Toueg, will appear in next year's proceedings. We received over 100 regular submissions, a record for DISC. These s- missions were read and evaluated by the program committee, with the help of external reviewers when needed. Overall, the quality of the submissions was excellent, and we were unable to accept many deserving papers. This year's Best Student Paper award goes to "Polynomial and Adaptive Long-Lived (2k?1)-Renaming" by Hagit Attiya and Arie Fouren. Arie Fouren is the student author.

Distributed Computing - Gadi Taubenfeld 2008-09-10

DISC, the International Symposium on Distributed Computing, is an annual forum for presentation of research on all aspects of distributed computing, - cluding the theory, design, implementation and applications of distributed - gorithms, systems and networks. The 22nd edition of DISC was held during September 22-24, 2008, in Arcachon, France. There were 101 submissions submitted to DISC this year and this volume contains 33 15-page-long regular papers selected by the Program Committee among these submissions. Every submitted paper was read and evaluated by ProgramCommittee membersassistedby externalreviewers.The ?nal decisions regarding acceptance or rejection of each paper were made during the electronic Program Committee meeting held during June 2008. Revised and expanded versions of a few best selected papers

will be considered for publication in a special issue of the journal Distributed Computing. The Program Committee selected Robert Danek and Wojciech Golab as the recipientsofthis year'sBestPaperAwardfortheir paper “Closingthe Compl- ity Gap Between FCFS Mutual Exclusion and Mutual Exclusion.”The Program Committee selected Wojciech Wawrzyniak as the recipient of this year's Best Student Paper Award for the paper “Fast Distributed Approximations in P- nar Graphs” coauthored with Andrzej Czygrinow and Michal Han´ ´ckowiak.

Distributed Computing - Nancy A. Lynch 2010-08-24

This book constitutes the refereed proceedings of the 24th International Symposium on Distributed Computing, DISC 2010, held in Cambridge, CT, USA, in September 2010. The 32 revised full papers, selected from 135 submissions, are presented together with 14 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, and were organized in topical sections on, transactions, shared memory services and concurrency, wireless networks, best student paper, consensus and leader election, mobile agents, computing in wireless and mobile networks, modeling issues and adversity, and self-stabilizing and graph algorithms.

Future Directions in Distributed Computing - International Workshop on Future Directions in Distributed Computing (2002 : University of Bologna) 2003-04-07

This book presents a collection of 38 position and research papers surveying the future landscape of research in distributed computing, written by the participants of the Workshop on Future Directions in Distributed Computing, held in Bertinoro, Italy in June 2002. The papers are grouped into four topical sections. The first deals with foundations of distributed computing. The second section surveys research issues in novel communication and network services. The third section is about data, file services, coherence, and replication in network computing. The last section deals with system and application issues. The book also includes two papers presenting insights into technological and social processes that are part of the development of the distributed computing technology. All in all, the book contains a plethora of research topics that are targets of future research or that are already being addressed by forward-looking research in distributed computing. The book was written to be a source of inspiration for researchers and a source of motivation for graduate students interested in entering the exciting research field of distributed computing.

Mobile Intelligence - Laurence T. Yang 2010-02-08

* Focuses on learning patterns and knowledge from data generated by mobile users and mobile technology. * Covers research and application issues in applying computational intelligence applications to mobile computing * Delivers benefits to a wide range of applications * Introduces the state of the art of computational intelligence to the mobile paradigm

Algorithms and Protocols for Wireless Sensor Networks - Azzedine Boukerche 2008-11-03

A one-stop resource for the use of algorithms and protocols in wireless sensor networks From an established international researcher in the field, this edited volume provides readers with comprehensive coverage of the fundamental algorithms and protocols for wireless sensor networks. It identifies the research that needs to be conducted on a number of levels to design and assess the deployment of wireless sensor networks, and provides an in-depth analysis of the development of the next generation of heterogeneous wireless sensor networks. Divided into nineteen succinct chapters, the book covers: mobility management and resource allocation algorithms; communication models; energy and power consumption algorithms; performance modeling and simulation; authentication and reputation mechanisms; algorithms for wireless sensor and mesh networks; and algorithm methods for pervasive and ubiquitous computing; among other topics. Complete with a set of challenging exercises, this book is a valuable resource for electrical engineers, computer engineers, network engineers, and computer science specialists. Useful for instructors and students alike, Algorithms and Protocols for Wireless Sensor Networks is an ideal textbook for advanced undergraduate and graduate courses in

computer science, electrical engineering,and network engineering.

Distributed Computing - David Peleg 2011-10-20 This book constitutes the refereed proceedings of the 25th International Symposium on Distributed Computing, DISC 2011, held in Rome, Italy, in September 2011. The 31 revised full papers presented together with invited lectures and brief announcements were carefully reviewed and selected from 136 submissions. The papers are organized in topical sections on distributed graph algorithms; shared memory; brief announcements; fault-tolerance and security; paxos plus; wireless; network algorithms; aspects of locality; consensus; concurrency.