

DISTRIBUTED ALGORITHMS AND PROTOCOLS

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Distributed Algorithms And Protocols

Joacim Rocklöv



Distributed Algorithms And Protocols:

Distributed Algorithms and Protocols Michel Raynal, 1988-03-09 The use of distributed algorithms offers the prospect of great advances in computing speed This book provides a clear practical and up to date guide to distributed algorithms and protocols in the area of control Much of the material has been heretofore unavailable in English Each chapter considers a specific aspect of control with an analysis of the problem a description of the algorithm for solving it and proofs of correctness Chapters can be studied independently to find solutions to particular problems

Distributed Algorithms Gerard Tel, 1994 This volume presents the proceedings of the 8th International Workshop on Distributed Algorithms WDAG 94 held on the island of Terschelling The Netherlands in September 1994 Besides the 23 research papers carefully selected by the program committee the book contains 3 invited papers The volume covers all relevant aspects of distributed algorithms the topics discussed include network protocols distributed control and communication real time systems dynamic algorithms self stabilizing algorithms synchronization graph algorithms wait free algorithms mechanisms for security replicating data and distributed databases PUBLISHER S WEBSITE *Distributed Algorithms and Protocols for Scalable Internet Telephony* Jonathan Rosenberg, 2001

Distributed Algorithms André Schiper, 1993 This volume presents the proceedings of the Seventh International Workshop on Distributed Algorithms WDAG 93 held in Lausanne Switzerland September 1993 It contains 22 papers selected from 72 submissions The selection was based on originality quality and relevance to the field of distributed computing 6 papers are from Europe 13 from North America and 3 from the Middle East The papers discuss topics from all areas of distributed computing and their applications including distributed algorithms for control and communication fault tolerant distributed algorithms network protocols algorithms for managing replicated data protocols for real time distributed systems issues of asynchrony synchrony and real time mechanisms for security in distributed systems techniques for the design and analysis of distributed algorithms distributed database techniques distributed combinatorial and optimization algorithms and distributed graph algorithms PUBLISHER S WEBSITE *Design and Analysis of Distributed Algorithms* Nicola Santoro, 2006-12-13 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 *Distributed Algorithms* Adrian Segall, Shmuel Zaks, 1992-10-15 This volume presents the proceedings of the Sixth Workshop on Distributed Algorithms WDAG 92 held in Haifa Israel November 2 4 1992 WDAG provides a forum for researchers and other parties interested in distributed algorithms and their applications The aim is to present recent research results explore directions for future research and identify common fundamental techniques that serve as building blocks in many distributed algorithms Papers in

the volume describe original results in all areas of distributed algorithms and their applications including distributed graph algorithms distributed combinatorial algorithms design of network protocols routing and flow control communication complexity fault tolerant distributed algorithms distributed data structures distributed database techniques replica control protocols distributed optimization algorithms mechanisms for safety and security in distributed systems and protocols for real time distributed systems

Networks and Distributed Computation Michel Raynal,1987 This book covers recent rapid developments in distributed systems It introduces the basic tools for the design and analysis of systems involving large scale concurrency with examples based on network systems considers problems of network systems considers problems of network and global state learning discusses protocols allowing synchronization constraints to be distributed and analyses the fundamental elements of distribution in detail using a large number of algorithms Interprocess communication and synchronization are central issues in the design of distributed systems taking on a different character from their counterparts in centralized systems

Introduction to Distributed Algorithms Gerard Tel,2000-09-28 Distributed algorithms have been the subject of intense development over the last twenty years The second edition of this successful textbook provides an up to date introduction both to the topic and to the theory behind the algorithms The clear presentation makes the book suitable for advanced undergraduate or graduate courses whilst the coverage is sufficiently deep to make it useful for practising engineers and researchers The author concentrates on algorithms for the point to point message passing model and includes algorithms for the implementation of computer communication networks Other key areas discussed are algorithms for the control of distributed applications wave broadcast election termination detection randomized algorithms for anonymous networks snapshots deadlock detection synchronous systems and fault tolerance achievable by distributed algorithms The two new chapters on sense of direction and failure detectors are state of the art and will provide an entry to research in these still developing topics

Distributed Algorithms J. van Leeuwen,Jan van Leeuwen,1988-05 This volume presents the proceedings of the 2nd International Workshop on Distributed Algorithms held July 8 10 1987 in Amsterdam The Netherlands It contains 29 papers on new developments in the area of the design and analysis of distributed algorithms The topics covered include e g algorithms for distributed consensus and agreement in networks connection management and topology update schemes election and termination detection protocols and other issues in distributed network control

Distributed Algorithms Nicola Santoro,Università di Bari. Istituto di scienze dell'informazione,1991-06-19 This volume contains the proceedings of the 4th International Workshop on Distributed Algorithms held near Bari Italy September 24 26 1990 The workshop was a forum for researchers students and other interested persons to discuss recent results and trends in the design and analysis of distributed algorithms for communication networks and decentralized systems The volume includes all 28 papers presented at the workshop covering current research in such aspects of distributed algorithm design as distributed combinatorial algorithms distributed algorithms on graphs distributed algorithms for new types of decentralized systems

distributed data structures synchronization and load balancing distributed algorithms for control and communication design and verification of network protocols routing algorithms fail safe and fault tolerant distributed algorithms distributed database techniques algorithms for transaction management and replica control and other related topics Distributed Algorithms Jean-Claude Bermond,1989-09-06 This book includes the papers presented at the Third International Workshop on Distributed Algorithms organized at La Colle sur Loup near Nice France September 26 28 1989 which followed the first two successful international workshops in Ottawa 1985 and Amsterdam 1987 This workshop provided a forum for researchers and others interested in distributed algorithms on communication networks graphs and decentralized systems The aim was to present recent research results explore directions for future research and identify common fundamental techniques that serve as building blocks in many distributed algorithms Papers describe original results in all areas of distributed algorithms and their applications including distributed combinatorial algorithms distributed graph algorithms distributed algorithms for control and communication distributed database techniques distributed algorithms for decentralized systems fail safe and fault tolerant distributed algorithms distributed optimization algorithms routing algorithms design of network protocols algorithms for transaction management composition of distributed algorithms and analysis of distributed algorithms *Distributed Algorithms* ,1997 *Distributed Algorithms* Marios Mavronicolas,Philippas Tsigas,1997-09-10 This book constitutes the refereed proceedings of the 11th International Workshop on Distributed Algorithms WDAG 97 held in Saarbr ucken Germany in September 1997 The volume presents 20 revised full papers selected from 59 submissions Also included are three invited papers by leading researchers The papers address a variety of current issues in the area of distributed algorithms and more generally distributed systems such as various particular algorithms randomized computing routing networking load balancing scheduling message passing shared memory systems communication graph algorithms etc Distributed Algorithms Nicola Santoro,Università di Bari. Istituto di scienze dell'informazione,1991 This volume contains the proceedings of the 4th International Workshop on Distributed Algorithms held near Bari Italy September 24 26 1990 The workshop was a forum for researchers students and other interested persons to discuss recent results and trends in the design and analysis of distributed algorithms for communication networks and decentralized systems The volume includes all 28 papers presented at the workshop covering current research in such aspects of distributed algorithm design as distributed combinatorial algorithms distributed algorithms on graphs distributed algorithms for new types of decentralized systems distributed data structures synchronization and load balancing distributed algorithms for control and communication design and verification of network protocols routing algorithms fail safe and fault tolerant distributed algorithms distributed database techniques algorithms for transaction management and replica control and other related topics PUBLISHER S WEBSITE *Distributed Algorithms* Jean-Claude Bermond,Michel Raynal,1989 This book includes the papers presented at the Third International Workshop on Distributed Algorithms organized at La Colle sur

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