

Ajoy K. Datta
Ted Herman (Eds.)

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Self-Stabilizing Systems

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Lisbon, Portugal, October 2001
Proceedings



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Self Stabilizing Systems Proceedings

Yi Pan, Yang Xiao



Self Stabilizing Systems Proceedings:

Self-Stabilizing Systems Ajoy K. Datta, Ted Herman, 2001-01-01

Physical systems which right themselves after being disturbed evoke our curiosity because we want to understand how such systems are able to react to unexpected stimuli. The mechanisms are all the more fascinating when systems are composed of small simple units and the ability of the system to self stabilize emerges out of its components. Faithful computer simulations of such physical systems exhibit the self stabilizing property but in the realm of computing particularly for distributed systems we have greater ambition. We imagine that all manner of software ranging from basic communication protocols to high level applications could enjoy self corrective properties. Self stabilizing software offers a unique non traditional approach to the critical problem of transient fault tolerance. Many successful instances of modern fault tolerant networks are based on principles of self stabilization. Surprisingly the most widely accepted technical definition of a self stabilizing system does not refer to faults it is the property that the system can be started in any initial state possibly an illegal state and yet the system guarantees to behave properly in finite time. This and similar definitions break many traditional approaches to program design in which the programmer by habit makes assumptions about initial conditions. The composition of self stabilizing systems initially seen as a daunting challenge has been transformed into a manageable task thanks to an accumulation of discoveries by many investigators. Search on various topics in self stabilization continues to supply new methods for constructing self stabilizing systems. It determines limits and applicability of the paradigm of self stabilization and connects self stabilization to related areas of fault tolerance and distributed computing.

Self-Stabilizing Systems Sukumar Ghosh, Ted Herman, 1997-08-15 Self governing control is a defining characteristic of autonomous computing machinery. Autonomy implies some degree of independence and when a system's ability to achieve its mission is independent of how it is initialized the system is self stabilizing. Application of self stabilization to system and network components is motivated by core concerns of fault tolerance in distributed systems. Self stabilization is a solution to problems of transient memory faults and systems with dynamic reconfigurations. Research in self stabilization explores many of the classic themes of distributed computing: distributed graph algorithms, mutual exclusion, distributed agreement. Recent papers combine self stabilization with traditional forms of fault tolerance, consider methodological issues for the design of self stabilizing systems, investigate randomized techniques and apply stabilization to new networking models. The workshop brings together concerns from theory and practice of self stabilization.

Self-stabilization Shlomi Dolev, 2000 Shlomi Dolev presents the fundamentals of self stabilization and demonstrates the process of designing self stabilizing distributed systems.

Self-Stabilizing Systems Shing-Tsaan Huang, Ted Herman, 2007-03-05 The refereed proceedings of the 6th International Symposium on Self Stabilizing Systems SSS 2003 held in San Francisco CA USA in June 2003. The 15 revised full papers presented were carefully reviewed and selected from 27 submissions. The papers address self stabilization issues.

for various types of systems and software including communication protocols sensor networks biological systems and directed networks several new algorithms are presented *Self-Stabilizing Systems* Sébastien Tixeuil, Ted Herman, 2005-10-17 This book constitutes the refereed proceedings of the 7th International Symposium on Self Stabilizing Systems SSS 2005 held in Barcelona Spain in October 2005 The 15 revised full papers presented were carefully reviewed and selected from 33 submissions The papers address classical topics of self stabilization prevailing extensions to the field such as snap stabilization code stabilization self stabilization with either dynamic faulty or Byzantine components or deal with applications of self stabilization either related to operating systems security or mobile and ad hoc networks

Self-Stabilizing Systems Ajoy K. Datta, Ted Herman, 2001-09-19

Physical systems which right themselves after being disturbed evoke our curiosity because we want to understand how such systems are able to react to unexpected stimuli The mechanisms are all the more fascinating when systems are composed of small simple units and the ability of the system to self stabilize emerges out of its components Faithful computer simulations of such physical systems exhibit the self stabilizing property but in the realm of computing particularly for distributed systems we have greater ambition We imagine that all manner of software ranging from basic communication protocols to high level applications could enjoy self corrective properties Self stabilizing software offers a unique non traditional approach to the critical problem of transient fault tolerance Many successful instances of modern fault tolerant networks are based on principles of self stabilization Surprisingly the most widely accepted technical definition of a self stabilizing system does not refer to faults it is the property that the system can be started in any initial state possibly an illegal state and yet the system guarantees to behave properly in finite time This and similar definitions break many traditional approaches to program design in which the programmer by habit makes assumptions about initial conditions The composition of self stabilizing systems initially seen as a daunting challenge has been transformed into a manageable task thanks to an accumulation of discoveries by many investigators search on various topics in self stabilization continues to supply new methods for constructing self stabilizing systems determines limits and applicability of the paradigm of self stabilization and connects self stabilization to related areas of fault tolerance and distributed computing *Guide to Wireless Mesh Networks* Sudip Misra, Subhas Chandra Misra, Isaac Woungang, 2009-02-19 Overview and Goals Wireless communication technologies are undergoing rapid advancements The last few years have experienced a steep growth in research in the area of wireless mesh networks WMNs The attractiveness of WMNs in general is attributed to their characteristics such as the ability to dynamically self organize and self configure coupled with the ability to maintain mesh connectivity leading in effect to low set up installation costs simpler maintenance tasks and service coverage with high reliability and fault tolerance WMNs also support their integration with existing wireless networks such as cellular networks WLANs wireless fidelity Wi Fi and worldwide interoperability of microwave access WiMAX WMNs have found useful applications in a broad range of domains such as broadband home

networking commercial business networking and community networking particularly attractive in offering broadband wireless access with low initial installation and set up costs Even though WMNs have emerged to be attractive and they hold great promises for our future there are several challenges that need to be addressed Some of the wellknown challenges are attributed to issues relating to scalability significant drop in throughput with the increase in the number of nodes multicasting offering quality of service guarantees energy efficiency and security This handbook attempts to provide a comprehensive guide on fundamental key topics coupled with new ideas and results in the areas of WMNs The book has been prepared keeping in mind that it needs to prove itself to be a valuable resource dealing with both the important core and the specialized issues in WMNs

Principles of Distributed Systems Marina Papatriantafyllou, Philippe Hunel, 2004-08-16 This book constitutes the thoroughly refereed post proceedings of the 7th International Conference on Principles of Distributed Systems OPODIS 2003 held at La Martinique French West Indies in December 2003 The 19 revised full papers presented together with abstracts of 3 invited talks were carefully selected from 61 submissions during two rounds of reviewing and improvement The papers are organized in topical sections on distributed and multiprocessor algorithms peer to peer systems and middleware real time and embedded systems and verification modeling and performance of distributed systems

Sirocco 5 : Proceedings of the 5th International Colloquium on Structural Information and Communication Complexity, Amalfi, Italy David Peleg, Luisa Gargano, 1998

Wireless Ad Hoc and Sensor Networks Houda Labiod, 2010-01-05 Two new fields have recently appeared mobile ad hoc networks and sensor networks The emergence of these very promising systems is mainly due to great technological progress in the field of wireless communication protocols these will make it possible to offer a broad range of new applications in both civilian and military domains The inherent characteristics of these systems imply new challenges This book deals with several relevant fields related to the evolution of these spontaneous and self organized networks The authors tackle critical problems such as the design of unicast multicast routing protocols the support of the quality of service the security mechanisms for routing and data transmission the service discovery the techniques of clustering self organization the mobility of code and the fault tolerance techniques The discussion adopts an analysis oriented approach which aims to cover the current cutting edge aspects of these fields and to highlight some potential future development making it essential reading for anyone wishing to gain a better understanding of these exciting new areas

Algorithms and Theory of Computation Handbook, Volume 2 Mikhail J. Atallah, Marina Blanton, 2009-11-20 Algorithms and Theory of Computation Handbook Second Edition Special Topics and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many of

Algorithmic Aspects of Wireless Sensor Networks Sotiris Nikolettas, José D.P. Rolim, 2007-01-26 This book constitutes the reviewed proceedings of the Second International Workshop on Algorithmic Aspects of Wireless Sensor Networks ALGOSENSORS 2006 held in Venice

Italy in July 2006 in association with ICALP 2006 Topics addressed are foundational and algorithmic aspects of the wireless sensor networks research In particular ALGOSENSORS focuses on abstract models complexity theoretic results and lower bounds

Architecting Dependable Systems Rogério de Lemos,Cristina Gacek,Alexander Romanovsky,2007-08-01 As software systems become more and more ubiquitous the issues of dependability become more and more critical Given that solutions to these issues must be planned at the beginning of the design process it is appropriate that these issues be addressed at the architectural level This book is inspired by the ICSE 2002 Workshop on Architecting Dependable Systems it is devoted to current topics relevant for improving the state of the art for architecting dependability Some of the 13 peer reviewed papers presented were initially presented at the workshop others were invited in order to achieve competent and complete coverage of all relevant aspects The papers are organized in topical sections on architectures for dependability fault tolerance in software architectures dependability analysis in software architectures industrial experience

Distributed Computing Ajay D. Kshemkalyani,Mukesh Singhal,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

Networked Systems Parosh Aziz Abdulla,Carole Delporte-Gallet,2016-09-14 This book constitutes the refereed post proceedings of the 4th International Conference on Networked Systems NETYS 2016 held in Marrakech Morocco in May 2016 The 22 full papers and 11 short papers presented together with 19 poster abstracts were carefully reviewed and selected from 121 submissions They report on best practices and novel algorithms results and techniques on networked systems and cover topics such as multi core architectures concurrent and distributed algorithms parallel concurrent distributed programming distributed databases cloud systems networks security and formal verification

Self-Stabilizing Systems Shing-Tsaan Huang,Ted Herman,2003-06-11 The refereed proceedings of the 6th International Symposium on Self Stabilizing Systems SSS 2003 held in San Francisco CA USA in June 2003 The 15 revised full papers presented were carefully reviewed and selected from 27 submissions The papers address self stabilization issues for various types of systems and software including communication protocols sensor networks biological systems and

directed networks several new algorithms are presented

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

Ad Hoc and Sensor Networks Yi Pan, Yang Xiao, 2006 Abstract

Security in Ad Hoc and Sensor Networks Raheem

A. Beyah, 2010 Security issues in ad hoc and sensor networks have become extremely important This edited book provides a comprehensive treatment for security issues in these networks ranging from attack mitigation to recovery after an attack has been successfully executed Security issues addressed include but are not limited to attacks malicious node detection access control authentication intrusion detection privacy and anonymity key management location verification security architectures and protocols secrecy and integrity network resilience and survivability and trust models This complete book provides an excellent reference for students researchers and industry practitioners related to these areas Sample Chapter s Chapter 1 Authentication and Confidentiality in Wireless Ad Hoc Networks 260 KB Contents Authentication and Confidentiality Privacy Routing Reliability Network Management and Configuration Readership Researchers industry practitioners graduate and undergraduate students in networking network security distributed security and sensor ad hoc security

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