

Ajoy K. Datta  
Ted Herman (Eds.)

LNCS 2194

# Self-Stabilizing Systems

5th International Workshop, WSS 2001  
Lisbon, Portugal, October 2001  
Proceedings



Springer

# Self Stabilizing Systems Proceedings

**Ajay D. Kshemkalyani, Mukesh Singhal**



## **Self Stabilizing Systems Proceedings:**

Self-Stabilizing Systems Ajoy K. Datta, Ted Herman, 2001      **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 crucial 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.      Self-Stabilizing Systems Shing-Tsaan Huang, Ted Herman, 2014-01-15      Self-stabilizing Systems, 2003      Self-Stabilizing Systems Ted Herman, Sébastien Tixeuil, 2005-10-27 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** 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.      *Proceedings of the MCC Workshop on Self-stabilizing Systems* Michael Evangelist, Shmuel Katz, Microelectronics and Computer Technology Corporation, 1989      Stabilization, Safety, and Security of Distributed Systems Xavier Défago, Franck Petit, Vincent Villain, 2011-09-23 This book constitutes the proceedings

of the 13th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2011 held in Grenoble France in October 2011 The 29 papers presented were carefully reviewed and selected from 79 submissions They cover the following areas ad hoc sensor and peer to peer networks safety and verification security self organizing and autonomic systems and self stabilization *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 crucial 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 Stabilization, Safety, and Security of Distributed Systems

Andréa W. Richa, Christian Scheideler, 2012-09-28 This book constitutes the refereed proceedings of the 14th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2012 held in Toronto Canada in October 2012 The 21 full papers and 10 brief announcements presented in this volume were carefully reviewed and selected from 75 submissions The conference provides a wide spectrum of topics covered in the following tracks self stabilization ad hoc and sensor networks fault tolerance and dependable systems safety and security cloud computing formal methods social networks peer to peer self organizing and autonomic systems **Stabilization, Safety, and Security of Distributed Systems**

Sandeep Kulkarni, Andre Schiper, 2008-11-14 This volume contains the proceedings of the 10th International Symposium on Stabilization Safety and Security of Distributed Systems SSS held November 21-23 2008 in Detroit Michigan USA SSS started as the Workshop on Self Stabilizing Systems WSS which was first held at Austin in 1989 From the second WSS in Las Vegas in 1995 the forum was held biennially at Santa Barbara 1997 Austin 1999 Lisbon 2001 San Francisco 2003 and Barcelona 2005 The title of the forum changed to the Symposium on Self Stabilizing Systems SSS in 2003 Since 2005 SSS

was run annually and in 2006 Dallas the scope of the conference was extended to cover all safety and security related aspects of self systems This extension followed the demand for self stabilization in various areas of distributed computing including peer to peer networks wireless sensor networks mobile ad hoc networks robotic networks To reflect this change the name of the symposium changed to the International Symposium on Stabilization Safety and Security of Distributed Systems SSS This year we received 43 submissions from 13 countries Most submissions were from the USA and France Each submission was carefully reviewed by three to six Program Committee members with the help of external reviewers For the first time a rebuttal phase allowed the authors to react to the reviews before the discussion of the papers within the Program Committee

Out of the 43 submissions 17 excellent papers were selected for presentation at the symposium which correspond to an acceptance rate of 40% It can be noted that the highest acceptance rate was for papers with keywords sensor networks 86% MANETs 67% and security of sensor and mobile networks protocols 67%

*Stabilization, Safety, and Security of Distributed Systems* Paul Spirakis, Philippos Tsigas, 2017-10-20 This book constitutes the refereed proceedings of the 19th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2017 held in Boston MA USA in November 2017 The 29 revised full papers presented together with 8 revised short papers were carefully reviewed and selected from 68 initial submissions This year the Symposium was organized into three tracks reflecting major trends related to self systems Stabilizing Systems Theory and Practice Distributed Computing and Communication Networks and Computer Security and Information Privacy

**Principles of Distributed Systems** Marina Papatriantafylou, 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

*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](http://www.cambridge.org/9780521876346) **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

**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 **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 delity Wi Fi and worldwide interoperability of microwave access WiMAX WMNs have found u ful applications in a broad range of domains such as broadband home networking commercial business networking and community networking particularly attr tive 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 signi cant drop in throughput with the increase in the number of nodes multicasting offering qu ity of service guarantees energy ef ciency 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 **Workshop on Self-Stabilizing Systems** Anish Arora, 1999 The proceedings contains 14 papers presented at the June 1999 workshop Topics include stabilization of maximal metric trees parallel composition of stabilizing algorithms an exercise in proving convergence through transfer functions finite state self stabilizing protocols in message passing syst **Stabilization, Safety, and Security of Distributed Systems** Rachid Guerraoui, Franck Petit, 2009-11-04 This book constitutes the refereed proceedings

of the 11th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2009 held in Lyon France in November 2009 The 49 revised full papers and 14 brief announcements presented together with three invited talks were carefully reviewed and selected from 126 submissions The papers address all safety and security related aspects of self stabilizing systems in various areas The most topics related to self systems The special topics were alternative systems and models autonomic computational science cloud computing embedded systems fault tolerance in distributed systems dependability formal methods in distributed systems grid computing mobility and dynamic networks multicore computing peer to peer systems self organizing systems sensor networks stabilization and system safety and security

*Structures of Domination in Graphs* Teresa W. Haynes, Stephen T. Hedetniemi, Michael A. Henning, 2021-05-04 This volume comprises 17 contributions that present advanced topics in graph domination featuring open problems modern techniques and recent results The book is divided into 3 parts The first part focuses on several domination related concepts broadcast domination alliances domatic numbers dominator colorings irredundance in graphs private neighbor concepts game domination varieties of Roman domination and spectral graph theory The second part covers domination in hypergraphs chessboards and digraphs and tournaments The third part focuses on the development of algorithms and complexity of signed minus and majority domination power domination and alliances in graphs The third part also includes a chapter on self stabilizing algorithms Of extra benefit to the reader the first chapter includes a glossary of commonly used terms The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments and proof techniques used in the field

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