

Marko Vukolić

Quorum Systems

with Applications to Storage and Consensus



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Quorum Systems With Applications To Storage And Consensus Marko Vukolic

Hagit Attiya, Faith Ellen



Quorum Systems With Applications To Storage And Consensus Marko Vukolic:

Quorum Systems Marko Vukolic, 2012-01-27 A quorum system is a collection of subsets of nodes called quorums with the property that each pair of quorums have a non empty intersection Quorum systems are the key mathematical abstraction for ensuring consistency in fault tolerant and highly available distributed computing Critical for many applications since the early days of distributed computing quorum systems have evolved from simple majorities of a set of processes to complex hierarchical collections of sets tailored for general adversarial structures The initial non empty intersection property has been refined many times to account for e g stronger Byzantine adversarial model latency considerations or better availability This monograph is an overview of the evolution and refinement of quorum systems with emphasis on their role in two fundamental applications distributed read write storage and consensus Table of Contents Introduction Preliminaries Classical Quorum Systems Classical Quorum Based Emulations Byzantine Quorum Systems Latency efficient Quorum Systems Probabilistic Quorum Systems

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Network Topology and Fault-Tolerant Consensus Dimitris Sakavalas, Lewis Tseng, 2022-05-31 As the structure of contemporary communication

networks grows more complex practical networked distributed systems become prone to component failures Fault tolerant consensus in message passing systems allows participants in the system to agree on a common value despite the malfunction or misbehavior of some components It is a task of fundamental importance for distributed computing due to its numerous applications We summarize studies on the topological conditions that determine the feasibility of consensus mainly focusing on directed networks and the case of restricted topology knowledge at each participant Recently significant efforts have been devoted to fully characterize the underlying communication networks in which variations of fault tolerant consensus can be achieved Although the deduction of analogous topological conditions for undirected networks of known topology had shortly followed the introduction of the problem their extension to the directed network case has been proven a highly non trivial task Moreover global knowledge restrictions inherent in modern large scale networks require more elaborate arguments concerning the locality of distributed computations In this work we present the techniques and ideas used to resolve these issues Recent studies indicate a number of parameters that affect the topological conditions under which consensus can be achieved namely the fault model the degree of system synchrony synchronous vs asynchronous the type of agreement exact vs approximate the level of topology knowledge and the algorithm class used general vs iterative We outline the feasibility and impossibility results for various combinations of the above parameters extensively illustrating the relation between network topology and consensus

Consistent Distributed Storage Vincent Gramoli, Nicolas Nicolaou, Alexander A. Schwarzmann, 2022-05-31 Providing a shared memory abstraction in distributed systems is a powerful tool that can simplify the design and implementation of software systems for networked platforms This enables the system designers to work with abstract readable and writable objects without the need to deal with the complexity and dynamism of the underlying platform The key property of shared memory implementations is the consistency guarantee that it provides under concurrent access to the shared objects The most intuitive memory consistency model is atomicity because of its equivalence with a memory system where accesses occur serially one at a time Emulations of shared atomic memory in distributed systems is an active area of research and development The problem proves to be challenging and especially so in distributed message passing settings with unreliable components as is often the case in networked systems We present several approaches to implementing shared memory services with the help of replication on top of message passing distributed platforms subject to a variety of perturbations in the computing medium

Concurrent Crash-Prone Shared Memory Systems Michel Raynal, 2022-03-22 Theory is what remains true when technology is changing So it is important to know and master the basic concepts and the theoretical tools that underlie the design of the systems we are using today and the systems we will use tomorrow This means that given a computing model we need to know what can be done and what cannot be done in that model Considering systems built on top of an asynchronous read write shared memory prone to process crashes this monograph presents and develops the fundamental notions that are universal constructions consensus numbers distributed

recursivity power of the BG simulation and what can be done when one has to cope with process anonymity and or memory anonymity Numerous distributed algorithms are presented the aim of which is being to help the reader better understand the power and the subtleties of the notions that are presented In addition the reader can appreciate the simplicity and beauty of some of these algorithms Distributed Computing Pearls Gadi Taubenfeld, 2022-05-31 Computers and computer networks are one of the most incredible inventions of the 20th century having an ever expanding role in our daily lives by enabling complex human activities in areas such as entertainment education and commerce One of the most challenging problems in computer science for the 21st century is to improve the design of distributed systems where computing devices have to work together as a team to achieve common goals In this book I have tried to gently introduce the general reader to some of the most fundamental issues and classical results of computer science underlying the design of algorithms for distributed systems so that the reader can get a feel of the nature of this exciting and fascinating field called distributed computing The book will appeal to the educated layperson and requires no computer related background I strongly suspect that also most computer knowledgeable readers will be able to learn something new **Introduction to Distributed Self-Stabilizing Algorithms** Karine Altisen, Stéphane Devismes, Swan Dubois, Franck Petit, 2022-05-31 This book aims at being a comprehensive and pedagogical introduction to the concept of self stabilization introduced by Edsger Wybe Dijkstra in 1973 Self stabilization characterizes the ability of a distributed algorithm to converge within finite time to a configuration from which its behavior is correct i.e satisfies a given specification regardless the arbitrary initial configuration of the system This arbitrary initial configuration may be the result of the occurrence of a finite number of transient faults Hence self stabilization is actually considered as a versatile non masking fault tolerance approach since it recovers from the effect of any finite number of such faults in a unified manner Another major interest of such an automatic recovery method comes from the difficulty of resetting malfunctioning devices in a large scale and so geographically spread distributed system the Internet Pair to Pair networks and Delay Tolerant Networks are examples of such distributed systems Furthermore self stabilization is usually recognized as a lightweight property to achieve fault tolerance as compared to other classical fault tolerance approaches Indeed the overhead both in terms of time and space of state of the art self stabilizing algorithms is commonly small This makes self stabilization very attractive for distributed systems equipped of processes with low computational and memory capabilities such as wireless sensor networks After more than 40 years of existence self stabilization is now sufficiently established as an important field of research in theoretical distributed computing to justify its teaching in advanced research oriented graduate courses This book is an initiation course which consists of the formal definition of self stabilization and its related concepts followed by a deep review and study of classical simple algorithms commonly used proof schemes and design patterns as well as premium results issued from the self stabilizing community As often happens in the self stabilizing area in this book we focus on the proof of correctness and the analytical complexity of

the studied distributed self stabilizing algorithms Finally we underline that most of the algorithms studied in this book are actually dedicated to the high level atomic state model which is the most commonly used computational model in the self stabilizing area However in the last chapter we present general techniques to achieve self stabilization in the low level message passing model as well as example algorithms

Distributed Graph Coloring Leonid Barenboim, Michael Elkin, 2022-06-01 The focus of this monograph is on symmetry breaking problems in the message passing model of distributed computing In this model a communication network is represented by a n vertex graph $G(V, E)$ whose vertices host autonomous processors The processors communicate over the edges of G in discrete rounds The goal is to devise algorithms that use as few rounds as possible A typical symmetry breaking problem is the problem of graph coloring Denote by Δ the maximum degree of G While coloring G with $\Delta + 1$ colors is trivial in the centralized setting the problem becomes much more challenging in the distributed one One can also compromise on the number of colors if this allows for more efficient algorithms Other typical symmetry breaking problems are the problems of computing a maximal independent set MIS and a maximal matching MM The study of these problems dates back to the very early days of distributed computing The founding fathers of distributed computing laid firm foundations for the area of distributed symmetry breaking already in the eighties In particular they showed that all these problems can be solved in randomized logarithmic time Also Linial showed that an $O(\Delta^2)$ coloring can be solved very efficiently deterministically However fundamental questions were left open for decades In particular it is not known if the MIS or the $\Delta + 1$ coloring can be solved in deterministic polylogarithmic time Moreover until recently it was not known if in deterministic polylogarithmic time one can color a graph with significantly fewer than $\Delta + 1$ colors Additionally it was open and still open to some extent if one can have sublogarithmic randomized algorithms for the symmetry breaking problems Recently significant progress was achieved in the study of these questions More efficient deterministic and randomized $\Delta + 1$ coloring algorithms were achieved Deterministic $O(\Delta^2)$ coloring algorithms with polylogarithmic running time were devised Improved and often sublogarithmic time randomized algorithms were devised Drastically improved lower bounds were given Wide families of graphs in which these problems are solvable much faster than on general graphs were identified The objective of our monograph is to cover most of these developments and as a result to provide a treatise on theoretical foundations of distributed symmetry breaking in the message passing model We hope that our monograph will stimulate further progress in this exciting area

Distributed Computing by Oblivious Mobile Robots Paola Flocchini, Giuseppe Prencipe, Nicola Santoro, 2022-06-01 The study of what can be computed by a team of autonomous mobile robots originally started in robotics and AI has become increasingly popular in theoretical computer science especially in distributed computing where it is now an integral part of the investigations on computability by mobile entities The robots are identical computational entities located and able to move in a spatial universe they operate without explicit communication and are usually unable to remember the past they are extremely simple with limited resources and

individually quite weak However collectively the robots are capable of performing complex tasks and form a system with desirable fault tolerant and self stabilizing properties The research has been concerned with the computational aspects of such systems In particular the focus has been on the minimal capabilities that the robots should have in order to solve a problem This book focuses on the recent algorithmic results in the field of distributed computing by oblivious mobile robots unable to remember the past After introducing the computational model with its nuances we focus on basic coordination problems pattern formation gathering scattering leader election as well as on dynamic tasks such as flocking For each of these problems we provide a snapshot of the state of the art reviewing the existing algorithmic results In doing so we outline solution techniques and we analyze the impact of the different assumptions on the robots computability power Table of Contents Introduction Computational Models Gathering and Convergence Pattern Formation Scatterings and Coverings Flocking Other Directions **Impossibility Results for Distributed Computing** Hagit Attiya,Faith Ellen,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 Decidability of Parameterized Verification Roderick Bloem,Swen Jacobs,Ayrat Kalimov,Igor Konnov,2022-05-31

While the classic model checking problem is to decide whether a finite system satisfies a specification the goal of parameterized model checking is to decide given finite systems n parameterized by $n \in \mathbb{N}$ whether for all $n \in \mathbb{N}$ the system n satisfies a specification In this book we consider the important case of n being a concurrent system where the number of replicated processes depends on the parameter n but each process is independent of n Examples are cache coherence protocols networks of finite state agents and systems that solve mutual exclusion or scheduling problems Further examples are abstractions of systems where the processes of the original systems actually depend on the parameter The literature in this area has studied a wealth of computational models based on a variety of synchronization and communication primitives including token passing broadcast and guarded transitions Often different terminology is used in the literature and results are based on implicit assumptions In this book we introduce a computational model that unites the central synchronization and communication primitives of many models and unveils hidden assumptions from the literature We survey existing decidability and undecidability results and give a systematic view of the basic problems in this exciting research area □□□

□ □□ □□ □□□□,2020-09-30 10 **Crumbling Walls: a Class of High Availability Quorum Systems** D. Peleg,A. Wool,1994

The Load, Capacity and Availability of Quorum Systems Mekhon Vaitzman le-mada'. Dept. of Applied Mathematics and Computer Science,M. Naor,A. Wool,1995 Abstract A quorum system is a collection of sets quorums every two of which

intersect Quorum systems have been used for many applications in the area of distributed systems including mutual exclusion data replication and dissemination of information Given a strategy to pick quorums the load L_S is the minimal access probability of the busiest element minimizing over the strategies The capacity Cap_S is the highest quorum accesses rate that S can handle We show that for any quorum system $Cap_S \geq 1/L_S$ The availability of a quorum system S is the probability that at least one quorum survives assuming that each element fails independently with probability p A tradeoff between L_S and the availability of S is shown None of the existing constructions of quorum systems achieves simultaneously good availability and low load We present four novel constructions of quorum system all featuring optimal or near optimal load and high availability The best construction based on paths in a grid has a load of $O(1/\sqrt{n})$ and a failure probability of $\exp(-\Omega(\sqrt{n}))$ when the elements fail with probability p

Quorum Systems for Distributed Control Protocols Avishai Wool, 1996

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