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Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 857
Disciplina	004/.36
Soggetti	Computers Software engineering Computer programming Algorithms Computer communication systems Theory of Computation Software Engineering/Programming and Operating Systems Computation by Abstract Devices Programming Techniques Algorithm Analysis and Problem Complexity Computer Communication Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Replicated file management in large-scale distributed systems -- Realization of PRAMs: Processor design -- Factoring -- Primary partition "Virtually-synchronous communication" harder than consensus -- Secure distributed computing: Theory and practice -- Fast increment registers -- Coping with contention -- Exotic behaviour of consensus numbers -- Space-optimum conflict-free construction of 1-writer 1-reader multivalued atomic variable -- Linear-time snapshot using multi-writer multi-reader registers -- Fast, long-lived renaming -- Anomalies in the wait-free hierarchy -- Finding the extrema of a distributed multiset -- The level of handshake required for establishing a connection -- Local labeling and resource allocation using

preprocessing -- A scalable approach to routing in ATM networks --
Low complexity network synchronization -- An incremental distributed
algorithm for computing biconnected components -- Reaching (and
maintaining) agreement in the presence of mobile faults -- Uniform
deterministic self-stabilizing ring-orientation on odd-length rings --
Using failure detectors to solve consensus in asynchronous shared-
memory systems -- An algorithm with optimal failure locality for the
dining philosophers problem -- Average and randomized complexity of
distributed problems -- Self-stabilization by local checking and global
reset -- Breakpoints and time in distributed computations -- Cheaper
matrix clocks.

Sommario/riassunto

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.
