1.	Record Nr.	UNISA996465439503316
	Titolo	Distributed Algorithms [[electronic resource]] : 4th International Workshop, Bari, Italy, September 24-26, 1990. Proceedings. / / edited by Jan van Leeuwen, Nicola Santoro
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1991
	ISBN	3-540-47405-6
	Edizione	[1st ed. 1991.]
	Descrizione fisica	1 online resource (VIII, 436 p.)
	Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 486
	Disciplina	004/.36
	Soggetti	Computers Computer programming Algorithms Computer communication systems Operating systems (Computers) Theory of Computation Computation by Abstract Devices Programming Techniques Algorithm Analysis and Problem Complexity Computer Communication Networks Operating Systems
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di contenuto	Self-stabilizing ring orientation -- Memory-efficient self stabilizing protocols for general networks -- On the computational power needed to elect a leader -- Spanning tree construction for nameless networks -- A linear fault-tolerant naming algorithm -- Distributed data structures: A complexity-oriented view -- An improved algorithm to detect communication deadlocks in distributed systems -- On the average performance of synchronized programs in distributed networks -- Distributed algorithms for reconstructing MST after topology change -- Efficient distributed algorithms for single-source shortest paths and related problems on plane networks -- Stepwise development of a distributed load balancing algorithm -- Greedy packet scheduling --

Optimal computation of global sensitive functions in fast networks -- Efficient mechanism for fairness and deadlock-avoidance in high-speed networks -- Strong verifiable secret sharing extended abstract -- Weak consistency and pessimistic replica control -- Localized-access protocols for replicated databases -- Weighted voting for operation dependent management of replicated data -- Wakeup under read/write atomicity -- Time and message efficient reliable broadcasts -- Early-stopping distributed bidding and applications -- Fast consensus in networks of bounded degree -- Common knowledge and consistent simultaneous coordination -- Agreement on the group membership in synchronous distributed systems -- Tight bounds on the round complexity of distributed 1-solvable tasks -- A time-randomness tradeoff for communication complexity -- Bounds on the costs of register implementations -- A bounded first-in, first-enabled solution to the l-exclusion problem.

Sommario/riassunto	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.