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Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5058
Disciplina	004.6
Soggetti	Computer networks Algorithms Computer science—Mathematics Discrete mathematics Artificial intelligence—Data processing Computer Communication Networks Discrete Mathematics in Computer Science Data Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Talks -- Mobile Entities Computing: Models and Problems -- Reputation, Trust and Recommendation Systems in Peer-to-Peer Systems -- Regular Papers -- Gathering Problem of Two Asynchronous Mobile Robots with Semi-dynamic Compasses -- Locating and Repairing Faults in a Network with Mobile Agents -- Remembering without Memory: Tree Exploration by Asynchronous Oblivious Robots -- Average Binary Long-Lived Consensus: Quantifying the Stabilizing Role Played by Memory -- Distributed Approximation Algorithm for Resource Clustering -- Sharpness: A Tight Condition for Scalability -- Discovery of Network Properties with All-Shortest-Paths Queries -- Recovering the Long-Range Links in Augmented Graphs -- Computing Frequent Elements Using Gossip -- Maintaining Consistent Transactional States without a Global Clock -- Equal-Area Locus-Based

Convex Polygon Decomposition -- On the Power of Local Orientations
-- Best Effort and Priority Queuing Policies for Buffered Crossbar
Switches -- Word of Mouth: Rumor Dissemination in Social Networks --
Non-preemptive Coordination Mechanisms for Identical Machine
Scheduling Games -- Computing Approximate Nash Equilibria in
Network Congestion Games -- On the Performance of Beauquier and
Debas' Self-stabilizing Algorithm for Mutual Exclusion -- Self-
stabilizing Cuts in Synchronous Networks -- Quiescence of Self-
stabilizing Gossiping among Mobile Agents in Graphs -- Gathering with
Minimum Delay in Tree Sensor Networks -- Centralized Communication
in Radio Networks with Strong Interference -- Fast Radio Broadcasting
with Advice.

Sommario/riassunto

This book constitutes the refereed proceedings of the 15th International Colloquium on Structural Information and Communication Complexity, SIROCCO 2008, held in Villars-sur-Ollon, Switzerland, in June 2008. The 22 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 52 submissions. The papers cover topics such as distributed algorithms, compact data structures, information dissemination, informative labeling schemes, combinatorial optimization, and others, with potential applications to large scale distributed systems including global computing platforms, peer-to-peer systems and applications, social networks, wireless networks, and network protocols (such as routing, broadcasting, localization).
