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Titolo	Distributed Computing in Sensor Systems [[electronic resource]] : Second IEEE International Conference, DCOSS 2006, San Francisco, CA, USA, June 18-20, 2006, Proceedings / / edited by Phil Gibbons, Tarek Abdelzaher, James Aspnes, Ramesh Rao
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Collana	Computer Communication Networks and Telecommunications ; ; 4026
Disciplina	681/.2
Soggetti	Computer communication systems Algorithms Computer science—Mathematics Data structures (Computer science) Operating systems (Computers) Electrical engineering Computer Communication Networks Algorithm Analysis and Problem Complexity Discrete Mathematics in Computer Science Data Structures Operating Systems Communications Engineering, Networks
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"... papers presented at the Second IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS 2006)"--Message from the Program Chair.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Evaluating Local Contributions to Global Performance in Wireless Sensor and Actuator Networks -- Roadmap Query for Sensor Network Assisted Navigation in Dynamic Environments -- Stabilizing Consensus in Mobile Networks -- When Birds Die: Making Population Protocols Fault-Tolerant -- Stochastically Consistent Caching and Dynamic Duty Cycling for Erratic Sensor Sources -- Distributed Model-Free Stochastic Optimization in Wireless Sensor Networks -- Agimone: Middleware

Support for Seamless Integration of Sensor and IP Networks -- Gappa: Gossip Based Multi-channel Reprogramming for Sensor Networks -- The Virtual Pheromone Communication Primitive -- Logical Neighborhoods: A Programming Abstraction for Wireless Sensor Networks -- Y-Threads: Supporting Concurrency in Wireless Sensor Networks -- Comparative Analysis of Push-Pull Query Strategies for Wireless Sensor Networks -- Using Data Aggregation to Prevent Traffic Analysis in Wireless Sensor Networks -- Efficient and Robust Data Dissemination Using Limited Extra Network Knowledge -- Distance-Sensitive Information Brokerage in Sensor Networks -- Efficient In-Network Processing Through Local Ad-Hoc Information Coalescence -- Distributed Optimal Estimation from Relative Measurements for Localization and Time Synchronization -- GIST: Group-Independent Spanning Tree for Data Aggregation in Dense Sensor Networks -- Distributed User Access Control in Sensor Networks -- Locating Compromised Sensor Nodes Through Incremental Hashing Authentication -- COTA: A Robust Multi-hop Localization Scheme in Wireless Sensor Networks -- Contour Approximation in Sensor Networks -- A Distortion-Aware Scheduling Approach for Wireless Sensor Networks -- Optimal Placement and Selection of Camera Network Nodes for Target Localization -- An Optimal Data Propagation Algorithm for Maximizing the Lifespan of Sensor Networks -- Lifetime Maximization of Sensor Networks Under Connectivity and k-Coverage Constraints -- Network Power Scheduling for TinyOS Applications -- Approximation Algorithms for Power-Aware Scheduling of Wireless Sensor Networks with Rate and Duty-Cycle Constraints -- MobiRoute: Routing Towards a Mobile Sink for Improving Lifetime in Sensor Networks -- SenCar: An Energy Efficient Data Gathering Mechanism for Large Scale Multihop Sensor Networks -- A Distributed Linear Least Squares Method for Precise Localization with Low Complexity in Wireless Sensor Networks -- Consistency-Based On-line Localization in Sensor Networks -- The Robustness of Localization Algorithms to Signal Strength Attacks: A Comparative Study.

Sommario/riassunto

The book constitutes the refereed proceedings of the Second International Conference on Distributed Computing in Sensor Systems, DCOSS 2006, held in San Francisco, California, USA in June 2006. The 33 revised full papers presented were carefully reviewed and selected from 87 submissions. The papers focus on distributed computing issues in large-scale networked sensor systems, including systematic design techniques and tools; they cover topics such as distributed algorithms and applications, programming support and middleware, data aggregation and dissemination, security, information fusion, lifetime maximization, and localization.