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Titolo	Distributed Computing in Sensor Systems : First IEEE International Conference, DCOSS 2005, Marina del Rey, CA, USA, June 30-July 1, 2005, Proceedings // edited by Viktor K. Prasanna, Sitharama Iyengar, Paul Spirakis, Matt Welsh
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Collana	Computer Communication Networks and Telecommunications, , 2945-9184 ; ; 3560
Altri autori (Persone)	Prasanna KumarV. K
Disciplina	681/.2
Soggetti	Computer networks Algorithms Computer science - Mathematics Discrete mathematics Artificial intelligence - Data processing Operating systems (Computers) Telecommunication Computer Communication Networks Discrete Mathematics in Computer Science Data Science Operating Systems Communications Engineering, Networks
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 -- Algorithmic Problems in Ad Hoc Networks -- Five Challenges in Wide-Area Sensor Systems -- Challenges in Programming Sensor Networks -- Regular Papers -- Distributed Proximity Maintenance in Ad Hoc Mobile Networks -- Adaptive Triangular Deployment Algorithm for Unattended Mobile Sensor Networks -- An Adaptive Blind Algorithm for Energy Balanced Data Propagation in Wireless Sensors Networks -- Sensor Localization in an Obstructed Environment -- Stably Computable Properties of Network

Graphs -- Routing Explicit Side Information for Data Compression in
 Wireless Sensor Networks -- Database-Centric Programming for Wide-
 Area Sensor Systems -- Using Clustering Information for Sensor
 Network Localization -- Macro-programming Wireless Sensor Networks
 Using Kairos -- Sensor Network Calculus – A Framework for Worst Case
 Analysis -- Design and Comparison of Lightweight Group Management
 Strategies in EnviroSuite -- Design of Adaptive Overlays for Multi-scale
 Communication in Sensor Networks -- Fault-Tolerant Self-organization
 in Sensor Networks -- TARA: Thermal-Aware Routing Algorithm for
 Implanted Sensor Networks -- Multiresolutional Filtering of a Class of
 Dynamic Multiscale System Subject to Colored State Equation Noise --
 Design and Analysis of Wave Sensing Scheduling Protocols for Object-
 Tracking Applications -- Multiple Controlled Mobile Elements (Data
 Mules) for Data Collection in Sensor Networks -- Analysis of Gradient-
 Based Routing Protocols in Sensor Networks -- Analysis of Target
 Detection Performance for Wireless Sensor Networks -- Collaborative
 Sensing Using Sensors of Uncoordinated Mobility -- Multi-query
 Optimization for Sensor Networks -- Distributed Energy-Efficient
 Hierarchical Clustering for Wireless Sensor Networks -- A Distributed
 Greedy Algorithm for Connected SensorCover in Dense Sensor
 Networks -- Infrastructure-Establishment from Scratch in Wireless
 Sensor Networks -- Short Papers -- A Local Facility Location Algorithm
 for Sensor Networks -- jWebDust : A Java-Based Generic Application
 Environment for Wireless Sensor Networks -- Invited Posters --
 Networked Active Sensing of Structures -- Wireless Technologies for
 Condition-Based Maintenance (CBM) in Petroleum Plants -- SensorNet
 Operational Prototypes: Building Wide-Area Interoperable Sensor
 Networks – Extended Abstract -- Project ExScal -- NetRad: Distributed,
 Collaborative and Adaptive Sensing of the Atmosphere Calibration and
 Initial Benchmarks -- Service-Oriented Computing in Sensor Networks
 -- Wireless Sensors: Oyster Habitat Monitoring in the Bras d'Or Lakes
 -- Heavy Industry Applications of Sensornets -- Coordinated Static and
 Mobile Sensing for Environmental Monitoring -- Contributed Posters --
 Ayushman: A Wireless Sensor Network Based Health Monitoring
 Infrastructure and Testbed -- Studying Upper Bounds on Sensor
 Network Lifetime by Genetic Clustering -- Sensor Network Coverage
 Restoration -- A Biologically-Inspired Data-Centric Communication
 Protocol for Sensor Networks -- RAGOBOT: A New Platform for Wireless
 Mobile Sensor Networks -- Energy Conservation Strategy for Sensor
 Networks -- Meteorological Phenomena Measurement System Based on
 Embedded System and Wireless Network -- An Architecture Model for
 Supporting Power Saving Services for Mobile Ad-Hoc Wireless Networks
 -- Distributed Recovery Units for Demodulation in Wireless Sensor
 Networks -- System Integration Using Embedded Web Server and
 Wireless Communication.

Sommario/riassunto

The book constitutes the refereed proceedings of the First International
 Conference on Distributed Computing in Sensor Systems, DCOSS 2005,
 held in Marina del Rey, California, USA in June/July 2005. The 26
 revised full papers presented were carefully reviewed and selected from
 85 submissions; also included are the abstracts of 3 invited talks, 2
 short papers, 9 invited poster abstracts, and 10 contributed abstracts.
 The papers address all current aspects of distributed computing issues
 in large-scale networked sensor systems, including systematic design
 techniques and tools, algorithms, and applications.
