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Nota di contenuto	Substitution Networks: Performance Collapse Due to Overhead in Communication Times -- Handheld Analyzer of IEEE 802.15.4 PHY and MAC Frames -- Distributed Medium Access Control with Dynamic Altruism -- Providing Throughput Guarantees in IEEE 802.11 Wireless Networks -- Node Discovery and Replacement Using Mobile Robot -- Dynamic Tracking of Composite Events in Wireless Sensor Networks -- Localization in Wireless Sensor Networks by Cross Entropy Method -- Auction-Based Agent Negotiation in Cognitive Radio Ad Hoc Networks -- Asynchronous Rendezvous Protocol for Cognitive Radio Ad Hoc Networks -- DISON: A Self-organizing Network Management Framework for Wireless Sensor Networks -- A Flexible Deterministic Approach to Key Pre-distribution in Grid Based WSNs -- LPKM: A Lightweight Polynomial-Based Key Management Protocol for

Distributed Wireless Sensor Networks -- Cross-Layer Interception
Caching for MANETs -- Below Cross-Layer: An Alternative Approach to
Service Discovery -- Modeling the Spontaneous Reaction of Mammalian
Cells to External Stimuli -- Substitution Networks Based on Software
Defined Networking -- A Modular Architecture for Reconfigurable
Heterogeneous Networks -- Design Challenges and Solutions for Multi-
channel Communications in Vehicular Ad Hoc NETWORKS -- Movement
Speed Based Inter-probe Times for Neighbour Discovery. .

Sommario/riassunto

This book constitutes the thoroughly refereed proceedings of the fourth International Conference on Ad Hoc Networks, ADHOCNETS 2012, held in Paris, France, in October 2012. The 18 revised full papers presented were carefully selected and reviewed from 43 submissions. These – and 6 invited papers now cover an even broader scope, referring to many types of autonomous wireless networks designed and deployed for a specific task or function, such as wireless sensor networks, vehicular networks, and home networks. They are organized in topical sections on MAC and PHY layers, localization and position-based protocols in WSNs, resource allocations and cognitive radio, key, service and caching management, network architectures and frameworks, and mobility and disconnection management.
