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Nota di contenuto	Ad Hoc and Sensor Networks -- Self-management of Routing on Human Proximity Networks -- Revisiting P2P Content Sharing in Wireless Ad Hoc Networks -- Event Detection Using Unmanned Aerial Vehicles: Ordered versus Self-organized Search -- Services, Storage, and Internet Routing -- A Survey of Models and Design Methods for Self-organizing Networked Systems -- Laying Pheromone Trails for Balanced and Dependable Component Mappings -- Self-organized Data Redundancy Management for Peer-to-Peer Storage Systems -- Self-organization of Internet Paths -- Peer-to-Peer Systems -- Non-Sticky Fingers: Policy-Driven Self-optimization for DHTs -- Passive/Active Load Balancing with Informed Node Placement in DHTs -- Optimal TCP-Friendly Rate Control for P2P Streaming: An Economic Approach -- Theory and General Approaches -- The Degree of Global-State Awareness in Self-Organizing Systems -- Revisiting the Auto-Regressive Functions of the Cross-Entropy Ant System -- Quantitative Modeling of Self-organizing Properties -- Overlay Networks -- Resolving the Noxious Effect of Churn on Internet Coordinate Systems -- Tuning Vivaldi: Achieving Increased Accuracy and Stability -- Short

Papers -- A Stable Random-Contact Algorithm for Peer-to-Peer File Sharing -- A Decentralized Architecture for Distributed Neighborhood Based Search -- Scheduling in P2P Streaming: From Algorithms to Protocols -- Network Heterogeneity and Cascading Failures – An Evaluation for the Case of BGP Vulnerability -- A Self-organizing Approach to Activity Recognition with Wireless Sensors -- Congestion Control in Wireless Sensor Networks Based on the Bird Flocking Behavior -- A Distributed Range Assignment Protocol -- A Distributed Power Saving Algorithm for Cellular Networks -- Local Optimum Based Power Allocation Approach for Spectrum Sharing in Unlicensed Bands -- Economics-Driven Short-Term Traffic Management in MPLS-Based Self-adaptive Networks -- Self-organized Evacuation Based on LifeBelt -- On the Role of Self-organisation as a Model for Networked Systems -- Addressing Stability of Control-Loops in the Context of the GANA Architecture: Synchronization of Actions and Policies.

Sommario/riassunto

This book constitutes the refereed proceedings of the 4th International Workshop on Self-Organizing Systems, IWSOS 2009, held in Zurich, Switzerland, in December 2009. The 14 revised full papers and 13 revised short papers presented were carefully selected from the 34 full and 27 short paper submissions. The papers are organized in topical sections on ad hoc and sensor networks; services, storage, and internet routing; peer-to-peer systems; theory and general approaches; overlay networks; peer-to-peer systems and internet routing; wireless networks; and network topics.
