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Nota di contenuto	Throughput and Delay with Network Coding in Hybrid Mobile Ad Hoc Networks: A Global Perspective -- HERO – A Home Based Routing in Pocket Switched Networks -- Routing for Information Leakage Reduction in Multi-channel Multi-hop Ad-Hoc Social Networks -- AMPLE: A Novel Incentive Approach to Adaptive-Width Channel Allocation in Multi-hop, Non-cooperative Wireless Networks -- Characterizing Home Network Traffic: An Inside View -- SHIELD: A Strategy-Proof and Highly Efficient Channel Auction Mechanism for Multi-radio Wireless Networks -- A Nonparametric Bayesian Approach for Opportunistic Data Transfer in Cellular Networks -- Online Protocol

Verification in Wireless Sensor Networks via Non-intrusive Behavior Profiling -- SPSA Based Packet Size Optimization Algorithm in Wireless Sensor Networks -- Lower Bounds on Data Collection Time in Sensor Networks -- Minimum Total Communication Power Connected Dominating Set in Wireless Networks -- Supporting Multi-level Quality of Services in Data Broadcast Systems -- Maximizing Network Topology Lifetime Using Mobile Node Rotation -- Joint Beamforming and Power Allocation Algorithm for Cognitive MIMO Systems via Game Theory -- Bit Allocation Scheme with Primary Base Station Cooperation in Cognitive Radio Network -- Optimal Spectrum Sharing for Contention-Based Cognitive Radio Wireless Networks -- Fast Group Communication Scheduling in Duty-Cycled Multihop Wireless Sensor Networks -- Reliable Cooperative Sensing in Cognitive Networks -- Heterogeneous Multicast Networks with Wireless Helping Networks -- Enclave: Promoting Unobtrusive and Secure Mobile Communications with a Ubiquitous Electronic Truthful Multi-unit Double Auction for Spectrum Allocation in Wireless Communications -- Joint Mobility and Heterogeneity for Connected k-Coverage in Sparsely Deployed Wireless Sensor Nets -- LB-MAC: A Lifetime-Balanced MAC Protocol for Sensor Networks -- Enhancing Performance and Reliability of RFID Middleware Using Mobile Agents -- An Improved Stochastic Decoding Algorithm of LTE Turbo Codes -- Robust Distributed Estimators for Wireless Sensor Networks with One-Bit Quantized Data Robust Energy-Efficient Power Loading for MIMO System under Imperfect CSI -- Opportunistic Channel-Hopping Based Effective Rendezvous Establishment in Cognitive Radio Networks -- The Modeling and Analysis of Context and Cardinality Constraints -- Role-Based Authorization Mechanism -- A Multiple Access Game Based MAC Protocol for Fairness Provisioning and Throughput Enhancement -- Forced Spectrum Access Termination Probability Analysis under Restricted Channel Handoff -- Energy-Efficient Robust Coverage under Uncertainty in Wireless Sensor Networks -- Optimizing Cauchy Reed-Solomon Codes for P2P Storage Cloud Aerial Localization with Smartphone -- A Framework of Fire Monitoring System Based on Sensor Networks -- Synchronized Flow-Based Evacuation Route Planning -- Group Multicast Capacity in Large Scale Wireless Networks -- Efficient Information Exchange in Single-Hop Multi-Channel Radio -- A Cache Based Multi-join Query Method with Two-Phase Processing in MANET -- Security Analysis of Opportunistic Networks Using Complex Network Properties -- Joint Optimization of Interface Assignment and Channel Allocation in Cognitive Radio Mesh Networks -- MPSL: A Mobile Phone-Based Physical-Social Location Verification System -- Location Proof via Passive RFID Tags A New Complementary Code Set with Zero Correlation Window -- Real-Time Data Aggregation for Contention-Based Sensor Networks in Cyber-Physical Systems -- On the Performance of TDD and LDD Based Clone Attack Detection in Mobile Ad Hoc Networks -- Active User Authentication for Mobile Devices -- Adaptive Power Controlled Routing for Underwater Sensor Networks -- Aqua-OS: An Operating System for Underwater Acoustic Networks -- Spectrum Efficiency of Nested Sparse HMPR: Forwarding Based on History Meeting Prediction Routing in Opportunistic Networks -- Bloom Filter-Based Ad Hoc Multicast Communication in Cyber-Physical Systems and Computational Materials -- On Wireless Network Infrastructure Optimization for Cyber-Physical Systems in Future Smart Buildings -- Building a Microscope for the Data Center -- Probabilistic Bandwidth Assignment in Wireless Sensor -- Secondary User Monitoring in Unslotted Cognitive Radio Networks with Unknown Models -- Design and Spectrum Efficiency of a New Waveform

Exploiting Spectrum Spatial Reusability for Routing in Multi-hop Wireless Networks -- Human Tracking for Daily Life Surveillance Based on a Wireless Sensor Network -- The Node Movement Models Based on Lagrange Motion for 3-D Underwater Acoustic Sensor Network Performance Analysis of Aloha for String Multi-hop Underwater Acoustic Sensor Networks -- Two Connected Dominating Set Algorithms for Wireless Sensor Networks -- A Cross-Layer Approach for Congestion Control in Real-Time Transmission in Wireless Sensor Networks -- A Theoretical Study on the Orientation Problem in Linear Wireless Sensor Networks -- Leveraging Cloud Computing for Privacy Preserving Aggregation in Multi-domain Wireless Networks -- Throughput and Delay with Network Coding in Hybrid Mobile Ad Hoc Networks: A Global Perspective -- HERO – A Home Based Routing in Pocket Switched Networks -- Routing for Information Leakage Reduction in Multi-channel Multi-hop Ad-Hoc Social Networks -- AMPLE: A Novel Incentive Approach to Adaptive-Width Channel Allocation in Multi-hop, Non-cooperative Wireless Networks -- Characterizing Home Network Traffic: An Inside View -- SHIELD: A Strategy-Proof and Highly Efficient Channel Auction Mechanism for Multi-radio Wireless Networks -- A Nonparametric Bayesian Approach for Opportunistic Data Transfer in Cellular Networks -- Online Protocol Verification in Wireless Sensor Networks via Non-intrusive Behavior Profiling -- SPSA Based Packet Size Optimization Algorithm in Wireless Sensor Networks -- Lower Bounds on Data Collection Time in Sensor Networks -- Minimum Total Communication Power Connected Dominating Set in Wireless Networks -- Supporting Multi-level Quality of Services in Data Broadcast Systems -- Maximizing Network Topology Lifetime Using Mobile Node Rotation -- Joint Beamforming and Power Allocation Algorithm for Cognitive MIMO Systems via Game Theory -- Bit Allocation Scheme with Primary Base Station Cooperation in Cognitive Radio Network -- Optimal Spectrum Sharing for Contention-Based Cognitive Radio Wireless Networks -- Fast Group Communication Scheduling in Duty-Cycled Multihop Wireless Sensor Networks -- Reliable Cooperative Sensing in Cognitive Networks -- Heterogeneous Multicast Networks with Wireless Helping Networks -- Enclave: Promoting Unobtrusive and Secure Mobile Communications with a Ubiquitous Electronic Truthful Multi-unit Double Auction for Spectrum Allocation in Wireless Communications -- Joint Mobility and Heterogeneity for Connected k-Coverage in Sparsely Deployed Wireless Sensor Nets -- LB-MAC: A Lifetime-Balanced MAC Protocol for Sensor Networks -- Enhancing Performance and Reliability of RFID Middleware Using Mobile Agents -- An Improved Stochastic Decoding Algorithm of LTE Turbo Codes -- Robust Distributed Estimators for Wireless Sensor Networks with One-Bit Quantized Data Robust Energy-Efficient Power Loading for MIMO System under Imperfect CSI -- Opportunistic Channel-Hopping Based Effective Rendezvous Establishment in Cognitive Radio Networks The Modeling and Analysis of Context and Cardinality Constraints -- Role-Based Authorization Mechanism -- A Multiple Access Game Based MAC Protocol for Fairness Provisioning and Throughput Enhancement -- Forced Spectrum Access Termination Probability Analysis under Restricted Channel Handoff -- Energy-Efficient Robust Coverage under Uncertainty in Wireless Sensor Networks -- Optimizing Cauchy Reed-Solomon Codes for P2P Storage Cloud Aerial Localization with Smartphone -- A Framework of Fire Monitoring System Based on Sensor Networks -- Synchronized Flow-Based Evacuation Route Planning -- Group Multicast Capacity in Large Scale Wireless Networks -- Efficient Information Exchange in Single-Hop Multi-Channel Radio -- A Cache Based Multi-join Query Method

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Sommario/riassunto

This book constitutes the refereed proceedings of the 7th International Conference on Wireless Algorithms, Systems, and Applications, WASA 2012, held in Yellow Mountains, China, in August 2012. The 24 revised full papers presented together with 32 invited papers were carefully reviewed and selected from 116 submissions. The papers cover a wide range of topics such as cognitive radio networks, cyber-physical network systems, mobile handset networking systems, underwater and radar wireless networks, and wireless and mobile security.

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