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Nota di contenuto	Invited Presentations -- Sensor Networks: From Smart Dust to Multi-scale, Multi-modal, Multi-user Observing Systems -- Advances in Wireless Personal Area Networking -- Routing in Sensor Networks -- A Comparative Study of Routing Strategies for Wireless Sensor Networks: Are MANET Protocols Good Fit? -- Detecting Disruptive Routers in Wireless Sensor Networks -- Energy-Efficient Data Dissemination in Sensor Networks Using Distributed Dynamic Tree Management -- Virtual Coordinates with Backtracking for Void Traversal in Geographic Routing -- Routing in MANET -- A Distributed Protocol for the Bounded-Hops Converge-Cast in Ad-Hoc Networks -- Discrete Optimization Models for Cooperative Communication in Ad Hoc Networks -- ROAR: A Multi-rate Opportunistic AODV Routing Protocol for Wireless Ad-Hoc Networks -- Energy-Efficient Face Routing on the Virtual Spanner -- Short Papers on Routing -- Energy Efficient Multipath Routing Using Network Coding in Wireless Sensor Networks -- Formal Verification and Simulation for Performance Analysis for Probabilistic Broadcast Protocols -- Policy-Based Route Optimization for Network Mobility of Next Generation Wireless Networks --

Geographic Pattern Routing for MANETOR in IVC -- Evaluation of the Energy Consumption in MANET -- Link Availability at Any Time in MANET -- Security I -- Reputation Based Localized Access Control for Mobile Ad-Hoc Networks -- Distributively Increasing the Percentage of Similarities Between Strings with Applications to Key Agreement -- Key Revocation for Identity-Based Schemes in Mobile Ad Hoc Networks -- Self-monitoring Security in Ad Hoc Routing -- Security II -- Improved Pairing Protocol for Bluetooth -- Threats to Security in DSRC/WAVE -- LSTOP: A Light-Weight Scalable Truthful Routing Protocol in MANETs with Selfish Nodes -- Modelling and Analysis of Attacks on the MANET Routing in AODV -- Wireless MAC -- Initialization for Ad Hoc Radio Networks with Carrier Sensing and Collision Detection -- Performance Modeling of a Bottleneck Node in an IEEE 802.11 Ad-Hoc Network -- Circularity-Based Medium Access Control in Mobile Ad Hoc Networks -- Short Papers on Security, QoS and TCP -- Improving the ID-Based Key Exchange Protocol in Wireless Mobile Ad Hoc Networks -- An Efficient Certificate Management for Mobile Ad-Hoc Network -- Performance Improvement of TCP with an Efficient Contention Window Control Mechanism (ECWC) in IEEE 802.11 Based Multi-hop Wireless Networks -- New Service Differentiation Model for End-to-End QoS Provisioning in Wireless Ad Hoc Networks -- Upper Layer Issues I -- Authenticated In-Network Programming for Wireless Sensor Networks -- A Congestion Window Adjustment Scheme for Improving TCP Performance over Mobile Ad-Hoc Networks -- Predictive Call Admission Control Algorithm for Power-Controlled Wireless Systems -- Upper Layer Issues II -- File System Support for Adjustable Resolution Applications in Sensor Networks -- A Classification and Performance Comparison of Mobility Models for Ad Hoc Networks -- Power-Aware Rate Control for Mobile Multimedia Communications.

Sommario/riassunto

The 5th International Conference on Adhoc, Mobile and Wireless Networks (Adhoc-Now 2006) was held during August 17–19, 2006, in Ottawa, Canada. The first four conferences in this series were held in Toronto (2002), Montreal (2003), Vancouver (2004) and Cancun (2005), respectively. The purpose of this conference is to provide a forum for researchers from academia/industry and practitioners to meet and exchange ideas regarding recent developments in the areas of ad hoc wireless networks. We received more than 170 papers for the conference submitted by authors from the following 25 countries: Australia, Bangladesh, Brazil, Canada, China, France, Germany, Greece, India, Iran, Ireland, Italy, Korea, Malaysia, Mexico, Nepal, Norway, Poland, Spain, Taiwan, The Netherlands, Turkey, UK, USA and Venezuela. Each paper was assigned to three members of the Technical Program Committee (TPC). Since each TPC member was responsible for generating - views for six to nine papers, we encouraged TPC members to delegate some reviews to other qualified reviewers. The names of all the TPC members and the additional reviewers appear elsewhere in this volume. Based on the reviews, we decided to accept 25 submissions as regular papers and 10 as short papers. Regular papers were given 25 minutes for presentation while short papers were given 15 minutes. All of the accepted papers appear in this volume. We are indebted to the TPC and the other reviewers for their detailed and timely reviews which enabled us to put together an excellent technical program.
