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Soggetti	Computer science Computer communication systems Software engineering Information storage and retrieval Application software Multimedia information systems Popular Computer Science Computer Communication Networks Software Engineering Information Storage and Retrieval Information Systems Applications (incl. Internet) Multimedia Information Systems
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Session 1: Protocol Engineering and Energy Efficiency in Wireless Networks -- Distributed MAC Protocol to Improve Energy and Channel Efficiency in MANET -- CGGC: Cached Greedy Geocast -- Design of Energy Efficient Wireless Networks Using Dynamic Data Type Refinement Methodology -- Context-Aware Group Communication in

Mobile Ad-Hoc Networks -- Session 2: Mobility Management and Mobile Devices -- An Empirical Wi-Fi Based Location Mechanism for Urban Search and Rescue Operations -- Mobility-Aware Rendezvous Point for Mobile Multicast Sources -- An Address Configuration and Confirmation Scheme for Seamless Mobility Support in IPv6 Network -- Session 3: Transport Layer and Congestion Control -- TCP Optimization through FEC, ARQ, and Transmission Power Tradeoffs -- Sliding Mode Congestion Control in Differentiated Service Communication Networks -- Application of Robust Fuzzy Adaptive Second-Order Sliding-Mode Control to Active Queue Management -- Graceful Degradation of Transport Layer in Mobile Internet -- Session 4: Architecture, Implementation, and Experimentation -- Implementing Ad Hoc to Terrestrial Network Gateways -- Connecting Wireless Sensornets with TCP/IP Networks -- Experimental Analysis of Heterogeneous Wireless Networks -- Session 5: Network and Protocol Modeling -- High-Level Behavioral SDL Model for the IEEE 802.15.3 MAC Protocol -- Performance of Phase Modulated Systems Using Fully Saturated Power Amplifiers -- On Connectivity in Ad Hoc Networks under Jamming Using Directional Antennas and Mobility -- The Ad Hoc On-Demand Distance Vector Protocol: An Analytical Model of the Route Acquisition Process -- Session 6: Wireless Network Scheduling and Analysis -- A Scheduling Algorithm for a QoS Based Satellite Network -- A Power-Allocation-Combined Scheduling Algorithm for CDMA-Based High-Rate Packet Data Systems -- Analyzing the Performance of Data Users in Packet Switched Wireless Systems with Prioritized Voice Traffic -- Session 7: Multimedia Distribution and Group Communication -- Adaptive Multimedia Streaming for Heterogeneous Networks -- A Scalable and Adaptive Key Management Protocol for Group Communication -- Smooth Fast Broadcasting (SFB) for Compressed Videos -- Session 8: Service Discovery -- Dynamic Management of UDDI Registries in a Wireless Environment of Web Services -- An Agent-Based Architecture for Service Discovery and Negotiation in Wireless Networks.

Sommario/riassunto

The International Conference on Wired/Wireless Internet Communications (WWIC) was held for the second time, following a successful start in 2002, in Las Vegas. The goal of the conference was to present high-quality results in the field, and to provide a framework for research collaboration through focused discussions that designated future research efforts and directions. The number and the quality of submissions indicate that we are well on the way to establishing WWIC as a major event in the field of wired/wireless internet communications. We received around 60 competitive submissions from Europe, North America, the Middle East and the Far East. Each submission was reviewed by at least two experts, although the majority received three or more reviews. Based on this rigorous reviewing procedure, the International Program Committee selected 26 submissions for presentation and publication in the proceedings. Therefore, we should all expect the quality of a selective conference in this volume. We hope you will enjoy it. The papers selected for presentation at WWIC 2004 were stimulating and of utmost interest. They were organized into eight sessions: 1. Protocol engineering and energy efficiency in wireless networks 2. Mobility management and mobile devices 3. Transport layer and congestion control 4. Architecture, implementation and experimentation 5. Network and protocol modeling 6. Wireless network scheduling and analysis 7. Multimedia distribution and group communication 8. Service discovery. We would like to thank the authors for choosing WWIC 2004 to submit their results. We would also like to thank all the members of the Technical Program Committee, as well as

the additional reviewers, for their effort to provide detailed and constructive reviews.
