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Nota di contenuto	Collaborative and Distributed Computation in Mesh-Like Wireless Sensor Arrays -- Prediction-Based Energy Map for Wireless Sensor Networks -- A Formally Verified Decentralized Key Management Architecture for Wireless Sensor Networks -- JMS on Mobile Ad Hoc Networks -- Dynamic Device Access for Mobile Users -- A Checkpointing Algorithm for Mobile Computing Environment -- Testing Mobile Wireless Applications -- TAPI: Transactions for Accessing Public Infrastructure -- On the Coexistence of UWB with Fixed Wireless Access Systems -- Improving Wireless Access Control Schemes via Adaptive Power Regulation -- Achieving Service Differentiation and High

Utilization in IEEE 802.11 -- Optimized Power Allocation and Signal Shaping for Interference-Limited Multi-antenna “Ad Hoc” Networks -- On the Performance of a Medium Access Scheme Based on EY-NPMA in a High Bitrate Wireless LAN -- WILMA: An Open Lab for 802.11 HotSpots -- MobileMAN: Mobile Metropolitan Ad Hoc Networks -- Wireless Networking for Virtual Immersive COMmunications: The VICOM Project -- DARWIN: Demonstrator for an Adaptive and Reconfigurable Wireless IP Network -- ? PROS – Micro Protocol Based Development of Mobile Ad Hoc Networks -- Simulation Results and a Proof-of-Concept Implementation of the FleetNet Position-Based Router -- EYES – Energy Efficient Sensor Networks -- NetMoAd: Scalability, Dependability, and Flexibility in Ad Hoc Networks -- The SONG (SOlutions for Next Generation Mobile Systems) Project -- Mobile Ad Hoc Communication Issues in Ubiquitous Computing – The Smart-Its Experimentation Platforms -- IST Project: BroadWay – The Way to Broadband Access at 60 GHz -- An Adaptive Radio Link Protocol to Improve TCP Performance over Correlated Fading Wireless Channels -- Novel Delayed ACK Techniques for Improving TCP Performance in Multihop Wireless Networks -- Performance Evaluation of Transport Protocols with Local Mobility Management -- Analysis and Measurement of TCP/IP Performance over GPRS Networks -- Exact Probabilistic Analysis of the Limited Scheduling Algorithm for Symmetrical Bluetooth Piconets -- A Probabilistic Topology Unaware TDMA Medium Access Control Policy for Ad Hoc Environments -- Power-Saving in Wi-Fi Hotspots: An Analytical Study -- A Queuing Analysis of Packet Dropping over a Wireless Link with Retransmissions -- Models for Non-intrusive Estimation of Wireless Link Bandwidth -- Supporting Proactive Location-Aware Services in Cellular Networks -- Implementation of a Scalable Context-Aware Computing System -- SPREADing the Web -- A Service Discovery Model for Wireless and Mobile Terminals in IPv6 -- Comparing SOAP Performance for Various Encodings, Protocols, and Connections -- Channel Capacity of MIMO Wideband CDMA System under the Imperfect Channel Estimation and Near/Far Effect -- Performance Evaluation of Partially Coherent MC/DS-CDMA System with MOC Sequence -- Throughput Competitiveness of WCDMA Channel Assignment -- Radio Planning and Optimization of W-CDMA Systems -- Soft Output Bit Error Rate Estimation for WCDMA -- The Convergence of Control, Communication, and Computation -- Self-Organising Node Address Management in Ad Hoc Networks -- DiSUS: Mobile Ad Hoc Network Unstructured Services -- Performance Evaluation of Base-Station-Assisted Link State Routing Method for Mobile Ad Hoc Networks -- A QoS Control Scheme for Voice and Data Services in cdma2000 System -- Push Driven Service Composition in Personal Communication Environments -- Performance Analysis and Modelling of an OSA Gateway -- Experimental Results of 802.11a Wireless LAN System over Optical Fiber -- Last Interaction Based Paging in Mobile Cellular Networks -- Multi-period Channel Assignment -- Supporting UMTS QoS in Wireless LANs -- “On the Integration of MPEG-4 Streams Pulled Out of High Performance Mobile Devices and Data Traffic over a Wireless Network” -- Embedding MANETs in the Real World -- Impact of Directional Antennas on Ad Hoc Routing -- A Rotational Sector-Based, Receiver-Oriented Mechanism for Location Tracking and Medium Access Control in Ad Hoc Networks Using Directional Antenna -- Alleviating Effects of Mobility on TCP Performance in Ad Hoc Networks Using Signal Strength Based Link Management -- Energy Efficient Multicast Routing in Mobile Ad Hoc Networks -- Providing Internet Access to IPv6 Mobile Personal Area Networks through UMTS -- Smooth Handover and Optimized Uplink

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Sommario/riassunto

This book constitutes the refereed proceedings of the IFIP-TC6 Eighth - ternational Conference on Personal Wireless Communications, PWC 2003. PWC 2003 is the ?agship conference of the IFIP Working Group 6.8, Mobile and Wireless Communications, and is the premier international forum for discussions between researchers, practitioners, and students interested in the symbiosis of mobile computing and wireless networks. It is a great pleasure to present the PWC 2003 technical program. This year the conference received 115 submissions from 27 countries indicating that PWC is a reference conference for worldwide researchers from the wireless and mobile community. With so many papers to choose from, the Technical Program Committee's job, to provide a conference program of the highest technical quality, was challenging and time consuming. From the 115 submissions, we ? nally selected 34 full papers and 15 short papers for presentation in the conference technical sessions. The conference technical program was split into three days, and included, in addition to the 49 refereed contributions, 4 invited papers from top-level researchers from the mobile and wireless community. To give researchers the opportunity to present ongoing work, and the novel ideas they are starting to explore, we included in the technical program two work-in-progress sessions and two novel-ideas sessions. The technical program also included a poster session devoted to presenting ongoing research projects on wireless and mobile communications.