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Nota di contenuto	I -- Signaling-Embedded Short Preamble MAC for Multihop Wireless Sensor Networks -- Data Diffusion Considering Target Mobility in Large-Scale Wireless Sensor Network -- Improving the Performance of Optical Burst-Switched Networks with Limited-Range Wavelength Conversion through Traffic Engineering in the Wavelength Domain -- On the Early Release of Burst-Control Packets in Optical Burst-Switched Networks -- 1+X: A Novel Protection Scheme for Optical Burst Switched Networks -- Satisfaction-Based Handover Control Algorithm for Multimedia Services in Heterogeneous Wireless Networks -- Adaptive Qos-Aware Wireless Packet Scheduling in OFDMA Broadband Wireless Systems -- Scheduled Uplink Packet Transmission Schemes for Voice Traffic in OFDMA-Based Wireless Communication Systems -- Cognitive Radio MAC Protocol for Hidden Incumbent System Detection -- De-triangulation Optimal Solutions for Mobility Scenarios with Asymmetric Links -- Analysis of Hierarchical Paging -- Wireless Loss Detection for TCP Friendly Rate Control Algorithm in Wireless Networks -- Rate-Adaptive TCP Spoofing with Segment Aggregation over Asymmetric Long Delay Links -- Effects of the Number of Hops on TCP Performance in Multi-hop Cellular Systems -- Traffic-Aware MAC Protocol Using Adaptive Duty Cycle for Wireless Sensor Networks -- mTBCP-Based Overlay Construction and Evaluation for Broadcasting Mini-system -- A

Network I/O Architecture for Terminal-Initiated Traffics in an Ubiquitous Service Server -- Analyzing and Modeling Router-Level Internet Topology -- Does the Average Path Length Grow in the Internet? -- An Implicit Cluster-Based Overlay Multicast Protocol Exploiting Tree Division for Mobile Ad Hoc Networks -- An Efficient Address Assignment Mechanism for Mobile Ad-Hoc Networks -- Geocasting in Wireless Ad Hoc Networks with Guaranteed Delivery -- Small-World Peer-to-Peer for Resource Discovery -- Proximity Based Peer-to-Peer Overlay Networks (P3ON) with Load Distribution -- Network Architecture and Protocols for BGP/MPLS Based Mobile VPN -- Migration toward DiffServ-Enabled Broadband Access Networks -- Integration of Broadband and Broadcasting Wireless Technologies at the UMTS Radio Access Level -- A Mobility-Aware Resource Reservation Mechanism for the Future Generation Network Environment -- Proactive Internet Gateway Discovery Mechanisms for Load-Balanced Internet Connectivity in MANET -- An Effective Data Dissemination in Vehicular Ad-Hoc Network -- Packet Forwarding Based on Reachability Information for VANETs -- II -- Balanced Multipath Source Routing -- Design and Evaluation of a Multi-class Based Multicast Routing Protocol -- Design and Test of the Multicast Session Management Protocol -- Providing Full QoS with 2 VCs in High-Speed Switches -- Fast Re-establishment of QoS with NSIS Protocols in Mobile Networks -- A Probabilistic Approach for Fully Decentralized Resource Management for Grid Systems -- ATS-DA: Adaptive Timeout Scheduling for Data Aggregation in Wireless Sensor Networks -- Sensor Network Deployment Using Circle Packings -- TSD: Tiny Service Discovery -- A Fault-Tolerant Event Boundary Detection Algorithm in Sensor Networks -- Collision-Free Downlink Scheduling in the IEEE 802.15.4 Network -- Successful Cooperation between Backoff Exponential Mechanisms to Enhance IEEE 802.11 Networks -- Knowledge-Based Exponential Backoff Scheme in IEEE 802.15.4 MAC -- Dynamic Backoff Time Adjustment with Considering Channel Condition for IEEE 802.11e EDCA -- A Framework for Detecting Internet Applications -- Transport Layer Identification of Skype Traffic -- Inter-Domain Access Volume Model: Ranking Autonomous Systems -- Achieving Network Efficient Stateful Anycast Communications -- Scalable RTLS: Design and Implementation of the Scalable Real Time Locating System Using Active RFID -- Collision-Resilient Symbol Based Extension of Query Tree Protocol for Fast RFID Tag Identification -- Performance Study of Anti-collision Algorithms for EPC-C1 Gen2 RFID Protocol -- A Lightweight Management System for a Military Ad Hoc Network -- Efficient Partitioning Strategies for Distributed Web Crawling -- A Secure Message Percolation Scheme for Wireless Sensor Network -- Prevention of Black-Hole Attack using One-Way Hash Chain Scheme in Ad-Hoc Networks -- On Modeling Counteraction against TCP SYN Flooding -- Energy-Efficient and Fault-Tolerant Positioning of Multiple Base Stations -- Reducing Energy Consumption through the Union of Disjoint Set Forests Algorithm in Sensor Networks -- Packet Delay and Energy Consumption Based on Markov Chain Model of the Frame-Based S-MAC Protocol under Unsaturated Conditions -- A Novel Local-Centric Mobility System -- An Efficient Proactive Key Distribution Scheme for Fast Handoff in IEEE 802.11 Wireless Networks -- An Efficient Authentication Procedure for Fast Handoff in Mobile IPv6 Networks -- Dynamic Distributed Authentication Scheme for Wireless LAN-Based Mesh Networks -- A MAP Changing Scheme Using Virtual Domain for Mobile IPv6 Networks -- Proposal and Evaluation of a Network Construction Method for a Scalable P2P Video Conferencing System -- H.264 Video Broadcast Scheme Using Feedback Information over IEEE

802.11e WLAN -- Quality Adaptation with Temporal Scalability for Adaptive Video Streaming -- Simple and Efficient Fast Staggered Data Broadcasting Scheme for Popular Video Services -- III -- An Enhanced Bandwidth Allocation Algorithms for QoS Provision in IEEE 802.16 BWA -- Robust Transmission Power and Position Estimation in Cognitive Radio -- On the Use of Manchester Violation Test in Detecting Collision -- Dynamic Routing Algorithm for Asymmetric Link in Mobile Ad Hoc Networks -- Dynamic Power Efficient QoS Routing Algorithm for Multimedia Services over Mobile Ad Hoc Networks -- Two-Hops Neighbor-Aware Routing Protocol in Mobile Ad Hoc Networks -- H 2 O: Hierarchically Optimized Hybrid Routing Strategies for Multihop Wireless Networks -- Anomaly Detection of Hostile Traffic Based on Network Traffic Distributions -- Investigation of Secure Media Streaming over Wireless Access Network -- A Reliable Multicast Transport Protocol for Communicating Real-Time Distributed Objects -- Achieving Proportional Delay and Loss Differentiation in a Wireless Network with a Multi-state Link -- Directional Flooding Scheme with Data Aggregation for Energy-Efficient Wireless Sensor Networks -- TCP with Explicit Handoff Notification for a Seamless Vertical Handoff.

Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of the International Conference on Information Networking, ICOIN 2007, held in Estoril, Portugal, in January 2007. The 82 revised full papers included in the volume were carefully selected and improved during two rounds of reviewing and revision from a total of 302 submissions. Topics covered include sensor networks; ad-hoc, mobile and wireless networks; optical networks; peer-to-peer networks and systems; routing; transport protocols; quality of service; network design and capacity planning; resource management; performance monitoring; network management; next generation Internet; and networked applications and services.
