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Nota di contenuto	Wireless Networks -- The 4GPLUS Project, Overview and Main Results -- Providing Real Time Applications with a Seamless Handover Using a Combination of Hierarchical Mobile IPv6 and Fast Handover -- Fast Handoff Algorithm Using Access Points with Dual RF Modules -- UMTS-WLAN Service Integration at Core Network Level -- Quality of Service -- End-to-End Quality of Service Monitoring Using ICMP and SNMP -- Expedited Forwarding Delay Budget Through a Novel Call Admission Control -- Unbiased RIO: An Active Queue Management Scheme for DiffServ Networks -- Admission and GoS Control in Multiservice WCDMA System -- Optical Networks -- A QoS Based Service Reservation: Supporting Multiple Service in Optical Access Networks -- Strategies for the Routing and Wavelength Assignment of Scheduled

and Random Lightpath Demands -- A Restoration Technique
Incorporating Multi-objective Goals in WDM Optical Networks -- Cost
Effective Design of TDM ADM Embedded in WDM Ring Networks --
Mobility Management -- An Efficient Mobility Management Scheme in
Hierarchical Mobile IPv6 -- Scalable Local Mobility Support for the IPv6-
Based Wireless Network Using Improved Host Based Routing -- Fuzzy
Mobility Management in Cellular Communication Systems -- Mobility
Prediction Handover Using User Mobility Pattern and Guard Channel
Assignment Scheme -- Transport Protocols -- Lost Retransmission
Detection for TCP Part 1: TCP Reno and NewReno -- A TCP Protocol
Booster for Wireless Networks -- Fairness Property and TCP-Level
Performance of Unified Scheduling Algorithm in HSDPA Networks -- A
Generic Approach for the Transmission of Real Time Data in Multicast
Networks -- Mobile Ad Hoc Networks -- A Multi-channel Route Relay
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Hoc Networks -- An Adjustable Scheduling Algorithm in Wireless Ad
Hoc Networks -- A Correlated Load Aware Routing Protocol in Mobile
Ad Hoc Networks -- Trial-Number Reset Mechanism at MAC Layer for
Mobile Ad Hoc Networks -- Real Time and Multimedia -- Operator
Services Deployment with SIP: Trends of Telephony over IP -- Network
Resource Management: From H.323 to SIP -- Distributed Multimedia
Networking Services: Dynamic Configuration and Change Management
-- The Dynamic Cache-Multicast Algorithm for Streaming Media --
Traffic -- IP Traffic Classification via Blind Source Separation Based on
Jacobi Algorithm -- Multi-time-Scale Traffic Modeling Using Markovian
and L-Systems Models -- Performance Analysis of Congestion Control
Mechanism Using Queue Thresholds Under Bursty Traffic -- Modeling
Traffic Flow Using Conversation Exchange Dynamics for Identifying
Network Attacks -- Internet Technologies and Applications -- Models
of Cooperation in Peer-to-Peer Networks -- A Survey -- Localization of
Mobile Agents in Mobile Ad hoc Networks -- Multimodal Access
Enabler Based on Adaptive Keyword Spotting -- Effects of the Vertical
Handover Policy on the Performance of Internet Applications -- Overlay
and Virtual Private Networks -- User-Empowered Programmable
Network Support for Collaborative Environment -- A Hybrid Overlay
Topology for Wide Area Multicast Sessions -- Fault/Attack Tolerant
Recovery Mechanism Under SRLG Constraint in the Next Generation
Optical VPN -- A Flow-Through Workflow Control Scheme for
BGP/MPLS VPN Service Provision -- Security and Privacy -- One Round
Identity-Based Authenticated Conference Key Agreement Protocol --
An Efficient Identity-Based Group Signature Scheme over Elliptic Curves
-- Handover-Aware Access Control Mechanism: CTP for PANA --
Authentication, Authorization, Admission, and Accounting for QoS
Applications -- Implementation and Performance Evaluation of
Communications Security in a Mobile E-health Service -- Network
Operations and Management -- Inside BGP Tables: Inferring
Autonomous System's Interconnectivity -- Accelerating Computation
Bounded IP Lookup Methods by Adding Simple Instructions -- Using
Lifecycles and Contracts to Build Better Telecommunications Systems
-- Probabilistic Inference for Network Management -- Wireless and
Sensor Networks -- A New Data Aggregation Algorithm for Clustering
Distributed Nodes in Sensor Networks -- On the Efficacy of PPPMux
Within Radio Access Network -- HAIAN: Hash-Based Autoconfiguration
by Integrating Addressing and Naming Resolution for Mobile Ad Hoc
Networks -- Simulation Analysis of Teletraffic Variables in DCA Cellular
Networks.

2004), it is our great pleasure to introduce the proceedings of ECUMN 2004, which was held during October 25–27, 2004, in Porto, Portugal. In response to the Call for Papers, a total of 131 papers were submitted from 29 countries. Each paper was reviewed by several members of the Technical Program Committee or by external peer reviewers. After careful assessment of the reviews, 53 papers were accepted for presentation in 13 technical sessions; half of them originated from countries outside Europe (mainly Asia). This illustrates the strong interest of this conference beyond its original geographical area. The conference program covered a variety of leading-edge research topics which are of current interest, such as wireless networks, mobile ad hoc networks, sensor networks, mobility management, optical networks, quality of service and traffic, transport protocols, real-time and multimedia, Internet technologies and applications, overlay and virtual private networks, security and privacy, and network operations and management. Together with three plenary sessions from France Télécom, Siemens, and Cisco Systems, these technical presentations - presented the latest research results from the international industry and academia and reported on findings on present and future multiservice networks.
