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Chong, Ilyoung; Kawahara, Kenji;

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This book constitutes the thoroughly refereed post-proceedings of the International Conference on Information Networking, ICOIN 2006 held in Sendai, Japan in January 2006. The 98 revised full papers presented were carefully selected and improved during two rounds of reviewing and revision from a total of 468 submissions. The papers are organized in topical sections on mobile and ubiquitous networking, ad hoc and sensor networks, advanced networking, QoS and resource management, network and transport protocols, network security, applications and services, peer-to-peer and overlay networks.

Mobile and Ubiquitous Networkings uLIN6: An Efficient Network Mobility Protocol in IPv6 Applying NEMO to a Mountain Rescue Domain Route Enhancement Data Networks Scheme Using HMIP in Heterogeneous Wireless Performance Evaluation of TCP Variants to Downward Vertical Handoff Resource Reservation for Multi Classes and Regions over OFDM-Based Multi-cell Environments Efficient Wireless Resource Management Scheme Using Differential Received Signal Strength Indicator in Soft Handoff Performance Evaluation of Public Key Based Mechanisms for Mobile IPv4 Authentication in AAA Environments Network-Initiated Fast Handover Scheme Using Virtual Connection over All-IP-Based Wireless Systems Efficient Mechanism for Source Mobility in Source Specific Multicast A Reliable Multicast Routing Scheme in Mobile IP Networks Fast IP Handover for Multimedia Services in Wireless Train Networks Hierarchical Synchronized Multimedia Multicast for Mobile Hosts in Heterogeneous Wireless Networks Control Parameter Setting of IEEE 802.11e for Proportional Throughput Differentiation A New Distributed Scheduling Algorithm to Guarantee QoS Parameters for 802.11e WLAN The Soft QoS-Aware Call Admission Control Scheme for HCCA in IEEE 802.11e A Distributed Mechanism for Trust Propagation and Consolidation in Ad Hoc Networks A Quality of Relay-Based Routing Scheme in Multi-hop Cellular NetworksAd Hoc Sensor Networks Optimal Transmission Range for Topology Management in Wireless Sensor Networks Service Discovery in Mobile Ad Hoc Networks Service Oriented Networks - Dynamic Distributed QoS Routing Framework Load Balancing Mechanisms in the MANET with Multiple Internet Gateways Design of Modified CGA for Address Auto-configuration and Digital Signature in Hierarchical Mobile Ad-Hoc Network……Advanced Networking QoS and Resource ManagementNetwork and Trasport ProtocolsNetwork SecurityApplications and ServicesPeer-to-Peer and Overlay NetworksAuthor Index

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