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This book constitutes the refereed proceedings of the 6th IEEE International Workshop on IP Operations and Management, IPOM 2006, held in Dublin, Ireland in October 2006 in the course of the 2nd International Week on Management of Networks and Services, Manweek 2006.   The 18 revised full papers and 4 revised short papers presented were carefully reviewed and selected from 45 submissions. The papers are organized in topical sections on modeling and planning, quality of service routing, quality of service issues, management and configuration, autonomics and security, topology, and short papers.

1. Modeling and Planning Traffic Modeling and Classification Using Packet Train Length and Packet Train Size Adaptive Bandwidth Allocation Method for Long Range Dependence Traffic Algorithms for Fast Resilience Analysis in IP Networks2. Quality of Service Routing Efficient OSPF Weight Allocation for Intra-domain QoS Optimization Probabilistic QoS Guarantees with FP/EDF Scheduling and Packet Discard in a Real Time Context: A Comparative Study of Local Deadline Assignment Techniques A Quantitative QoS Routing Model for Diffserv Aware MPLS Networks3. Quality of Service Issues Experience-Based Admission Control with Type-Specific Overbooking Applying Blood Glucose Homeostatic Model Towards Self-management of IP QoS Provisioned Networks New Mathematical Models for Token Bucket Based Meter/Markers4. Management and Configuration Unique Subnet Auto-configuration in IPv6 Networks An Efficient Process for Estimation of Network Demand for QoS-Aware IP Network Planning A Protocol for Atomic Deployment of Management Policies in QoS-Enabled Networks5. Autonomics and Security Towards Autonomic Network Management for Mobile IPv4 Based Wireless Networks A Comparison of Mobile Agent and SNMP Message Passing for Network Security Management Using Event Cases Principles of Secure Network Configuration: Towards a Formal Basis for Self-configuration6. Topology Risk Assessment of End-to-End Disconnection in IP Networks Due to Network Failures Evaluation of a Large-Scale Topology Discovery Algorithm The Virtual Topology Service: A Mechanism for QoS-Enabled Interdomain Routing7. Short Papers Author Index

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