P2P and Overlay Networks
Using Torrent Inflation to Efficiently Serve the Long Tail in Peer-Assisted Content Delivery Systems p. 1
Network Distance Prediction Based on Decentralized Matrix Factorization p. 15
Topology-Awareness and Reoptimization Mechanism for Virtual Network Embedding p. 27
Survivable Virtual Network Embedding p. 40
Toward Efficient On-Demand Streaming with BitTorrent p. 53
Synapse: A Scalable Protocol for Interconnecting Heterogeneous Overlay Networks p. 67
Performance Measurement
A Longitudinal Study of Small-Time Scaling Behavior of Internet Traffic p. 83
Measurement Study of Multi-party Video Conferencing p. 96
Quality of Service
A Flow Scheduler Architecture p. 122
Stateless RD Network Services p. 135
Wireless Networks
Multicast in Multi-channel Wireless Mesh Networks p. 148
Ambient Interference Effects in Wi-Fi Networks p. 160
A Zone Assignment Algorithm for Fractional Frequency Reuse in Mobile WiMAX Networks p. 174
Addressing and Routing
Handling Transient Link Failures Using Alternate Next Hop Counters p. 186
Efficient Recovery from False State in Distributed Routing Algorithms p. 198
IP Fast Reroute in Networks with Shared Risk Links p. 213
EAU: Efficient Address Updating for Seamless Handover in Multi-homed Mobile Environments p. 227
Applications and Services
Speculative Validation of Web Objects for Further Reducing the User-Perceived Latency p. 239
Dynamic Service Placement in Shared Service Hosting Infrastructures p. 251
Evaluating the Impact of a Novel Warning Message Dissemination Scheme for VANETs Using Real City Maps p. 265
Ad Hoc and Sensor Networks
Resource Optimization Algorithm for Sparse Time-Driven Sensor Networks p. 277
Fault-Tolerant Power-Aware Topology Control for Ad-Hoc Wireless Networks p. 303
Work in Progress
Server Guaranteed Cap: An Incentive Mechanism for Maximizing Streaming Quality in Heterogeneous Overlays p. 315
End-to-End Throughput with Cooperative Communication in Multi-channel Wireless Networks p. 327
Cost Bounds of Multicast Light-Trees in WDM Networks p. 339
Bidirectional Range Extension for TCAM-Based Packet Classification p. 351
Intercarrier Compensation between Providers of Different Layers: Advantages of Transmission Initiator Determination p. 373
Application of Secondary Information for Misbehavior Detection in VANETs p. 385
Path Attestation Scheme to Avert DDoS Flood Attacks p. 397
Author Index p. 409

Table of Contents provided by Blackwell's Book Services and R.R. Bowker. Used with permission.