Networking

Transactions Papers

1373

Computing Minimal Update Sequences for Graceful Router-Wide Reconfigurations F. Clad, S. Vissicchio, P. Mérindol, P. Francois, and J.-J. Pansiot

1387

Exact Worst-Case Delay in FIFO-Multiplexing Feed-Forward Networks A. Bouillard and G. Stea

1401

Energy-Efficient Randomized Switching for Maximizing Lifetime in Tree-Based Wireless Sensor Networks S. K. A. Imon, A. Khan, M. Di Francesco, and S. K. Das

1416

Topology-Transparent Scheduling via the Chinese Remainder Theorem Y.-S. Su

1430

Deadline-Aware Scheduling With Adaptive Network Coding for Real-Time Traffic

L. Yang, Y. E. Sagduyu, J. Zhang, and J. H. Li

1444

Stable Distributed P2P Protocols Based on Random Peer Sampling
B. Oğuz, V. Anantharam, and I. Norros

1457

Confidentiality-Preserving Control of Uplink Cellular Wireless Network Using Hybrid ARQ

Y. Sarikaya, O. Ercetin, and C. E. Koksal

1471

Exploiting Social Ties for Cooperative D2D Communications: A Mobile Social Networking Case

X Chen B Proulx X Gong and I Zhang

1485

Does Network Coding Combined With Interference Cancellation Bring Any Gain to a Wireless Network?

1501

On the Area and Energy Scalability of Wireless Network-on-Chip: A Model-Based Benchmarked Design Space Exploration

S. Abadal, M. Iannazzo, M. Nemirovsky, A. Cabellos-Aparicio, H. Lee, and E. Alarcón

1514

CEDAR: A Low-Latency and Distributed Strategy for Packet Recovery in Wireless Networks C. Qiu, H. Shen, S. Soltani, K. Sapra, H. Jiang, and J. O. Hallstrom

1528

A Message-Passing Algorithm for Wireless Network Scheduling I. C. Paschalidis, F. Huang, and W. Lai

1542

Throughput-Optimal Scheduling Design With Regular Service Guarantees in Wireless Networks B. Li, R. Li, and A. Eryilmaz

1553

Completion Delay Minimization for Instantly Decodable Network Codes *S. Sorour and S. Valaee*

1568

CloudNet: Dynamic Pooling of Cloud Resources by Live WAN Migration of Virtual Machines

T. Wood, K. K. Ramakrishnan, P. Shenoy, J. Van der Merwe, J. Hwang, G. Liu, and L. Chaufournier

1584

MaxWeight Versus BackPressure: Routing and Scheduling in Multichannel Relay Networks S. Moharir and S. Shakkottai

1599

Exploiting Excess Capacity, Part II: Differentiated Services Under Traffic Growth

F. Dikbiyik, M. Tornatore, and B. Mukherje

A joint publication of the IEEE Communications Society, the IEEE Computer Society, and the ACM with its Special Interest Group on Data Communication (SIGCOMM)





Transactions Papers (Continued from Front Cover)

1610

On the Scalability of Routing With Policies *A. Gulyás, G. Rétvári, Z. Heszberger, and R. Agarwal*

1619

Skewless Network Clock Synchronization Without Discontinuity: Convergence and Performance E. Mallada, X. Meng, M. Hack, L. Zhang, and A. Tang

1634

A Double-Auction Mechanism for Mobile Data-Offloading Markets

1648

Guaranteeing Heterogeneous Bandwidth Demand in Multitenant Data Center Networks D. Li, J. Zhu, J. Wu, J. Guan, and Y. Zhang

1661

Rating Network Paths for Locality-Aware Overlay Construction and Routing

1674

High-Performance Centralized Content Delivery Infrastructure: Models and Asymptotics *V. Shah and G. de Veciana*

1688

Protecting Multi-Lateral Localization Privacy in Pervasive Environments *T. Shu, Y. Chen, and J. Yang*

COMMENTS AND CORRECTIONS

1702

Corrections to "Link-State Routing With Hop-by-Hop Forwarding Can Achieve Optimal Traffic Engineering"