

Table of Contents

Session 1: P2P and Overlay

Dissecting BitTorrent: Five Months in a Torrent's Lifetime	1
<i>M. Izal, G. Urvoy-Keller, E.W. Biersack, P.A. Felber, A. Al Hamra, L. Garcés-Erice</i>	
A Measurement-Based Traffic Profile of the eDonkey Filesharing Service .	12
<i>Kurt Tutschku</i>	
Bootstrapping in Gnutella: A Measurement Study	22
<i>Pradnya Karbhari, Mostafa Ammar, Amogh Dhamdhere, Himanshu Raj, George F. Riley, Ellen Zegura</i>	
Testing the Scalability of Overlay Routing Infrastructures	33
<i>Sushant Rewaskar, Jasleen Kaur</i>	

Session 2: Network Optimization

Toward a Measurement-Based Geographic Location Service	43
<i>Artur Ziviani, Serge Fdida, José F. de Rezende, Otto Carlos M.B. Duarte</i>	
An Incremental Super-linear Preferential Internet Topology Model	53
<i>Sagy Bar, Mira Gonen, Avishai Wool</i>	
Geometric Exploration of the Landmark Selection Problem	63
<i>Liyang Tang, Mark Crovella</i>	
The Interdomain Connectivity of PlanetLab Nodes	73
<i>Suman Banerjee, Timothy G. Griffin, Marcelo Pias</i>	

Session 3: Traffic Analysis

Searching for Self-similarity in GPRS	83
<i>Roger Kalden, Sami Ibrahim</i>	
The Effect of Flow Capacities on the Burstiness of Aggregated Traffic . . .	93
<i>Hao Jiang, Constantinos Dovrolis</i>	
Micro-time-scale Network Measurements and Harmonic Effects	103
<i>Mark Carson, Darrin Santay</i>	
Their Share: Diversity and Disparity in IP Traffic	113
<i>Andre Broido, Young Hyun, Ruomei Gao, kc claffy</i>	

Session 4: Protocol and System Measurement

Origins of Microcongestion in an Access Router	126
<i>Konstantina Papagiannaki, Darryl Veitch, Nicolas Hohn</i>	
Performance Measurement and Analysis of H.323 Traffic	137
<i>Prasad Calyam, Mukundan Sridharan, Weiping Mandrawa, Paul Schopis</i>	
Measurements and Laboratory Simulations of the Upper DNS Hierarchy	147
<i>Duane Wessels, Marina Fomenkov, Nevil Brownlee, kc claffy</i>	

Session 5: Tools

A Robust Classifier for Passive TCP/IP Fingerprinting	158
<i>Robert Beverly</i>	
NETI@home: A Distributed Approach to Collecting End-to-End Network Performance Measurements	168
<i>Charles Robert Simpson, Jr., George F. Riley</i>	
Comparative Analysis of Active Bandwidth Estimation Tools	175
<i>Federico Montesino-Pouzols</i>	
Active Measurement for Multiple Link Failures Diagnosis in IP Networks	185
<i>Hung X. Nguyen, Patrick Thiran</i>	

Session 6: Miscellaneous

Structured Errors in Optical Gigabit Ethernet Packets	195
<i>Laura James, Andrew Moore, Madeleine Glick</i>	
Flow Clustering Using Machine Learning Techniques	205
<i>Anthony McGregor, Mark Hall, Perry Lorier, James Brunskill</i>	
Using Data Stream Management Systems for Traffic Analysis – A Case Study –	215
<i>Thomas Plagemann, Vera Goebel, Andrea Bergamini, Giacomo Tolu, Guillaume Urvoy-Keller, Ernst W. Biersack</i>	
Inferring Queue Sizes in Access Networks by Active Measurement	227
<i>Mark Claypool, Robert Kinicki, Mingzhe Li, James Nichols, Huahui Wu</i>	

Session 7: Network Measurement

Reordering of IP Packets in Internet	237
<i>Xiaoming Zhou, Piet Van Mieghem</i>	

Effects of Interrupt Coalescence on Network Measurements	247
<i>Ravi Prasad, Manish Jain, Constantinos Dovrolis</i>	
Measurement Approaches to Evaluate Performance Optimizations for Wide-Area Wireless Networks	257
<i>Rajiv Chakravorty, Julian Chesterfield, Pablo Rodriguez, Suman Banerjee</i>	
Session 8: BGP and Routing	
Measuring BGP Pass-Through Times	267
<i>Anja Feldmann, Hongwei Kong, Olaf Maennel, Alexander Tudor</i>	
Impact of BGP Dynamics on Router CPU Utilization	278
<i>Sharad Agarwal, Chen-Nee Chuah, Supratik Bhattacharyya, Christophe Diot</i>	
Correlating Internet Performance Changes and Route Changes to Assist in Trouble-Shooting from an End-User Perspective	289
<i>Connie Logg, Jiri Navratil, Les Cottrell</i>	
Author Index	299

<http://www.springer.com/978-3-540-21492-2>

Passive and Active Network Measurement

5th International Workshop, PAM 2004, Antibes

Juan-les-Pins, France, April 19-20, 2004, Proceedings

Barakat, C.; Pratt, I. (Eds.)

2004, XII, 308 p., Softcover

ISBN: 978-3-540-21492-2