

IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

A PUBLICATION OF THE IEEE COMMUNICATIONS SOCIETY



OCTOBER 2011

VOLUME 29

NUMBER 9

ISACEM

(ISSN 0733-8716)

MEASUREMENT OF INTERNET TOPOLOGIES K. Gummadi, M. Latapy, J.-J. Pansiot, Y. Shavitt, and W. Willinger

<i>Guest Editorial</i>	<i>K. Gummadi, M. Latapy, J.-J. Pansiot, Y. Shavitt, and W. Willinger</i>	1761
<i>Physical Internet Connectivity: Router-Level Topologies</i>		
The Internet Topology Zoo	<i>S. Knight, H. X. Nguyen, N. Falkner, R. Bowden, and M. Roughan</i>	1765
Topology Discovery at the Router Level: A New Hybrid Tool Targeting ISP Networks	<i>P. Marchetta, P. Merindol, B. Donnet, A. Pescapé, and J.-J. Pansiot</i>	1776
Inferring Unseen Components of the Internet Core	<i>B. Eriksson, P. Barford, J. Sommers, and R. Nowak</i>	1788
Towards Unbiased BFS Sampling	<i>M. Kurant, A. Markopoulou, and P. Thiran</i>	1799
<i>Logical Internet Connectivity: AS-Level Topologies</i>		
10 Lessons from 10 Years of Measuring and Modeling the Internet's Autonomous Systems	<i>M. Roughan, W. Willinger, O. Maennel, D. Perouli, and R. Bush</i>	1810
A Framework to Quantify the Pitfalls of Using Traceroute in AS-Level Topology Measurement	<i>Y. Zhang, R. Oliveira, Y. Wang, S. Su, B. Zhang, J. Bi, H. Zhang and L. Zhang</i>	1822
Quantifying the Importance of Vantage Point Distribution in Internet Topology Mapping . . .	<i>Y. Shavitt and U. Weinsberg</i>	1837
Topological Implications Of Cascading Interdomain Bilateral Traffic Agreements	<i>V. Jesus, R. L. Aguiar, and P. Steenkiste</i>	1848
<i>Application-Driven Connectivity: Overlay Topologies</i>		
Investigating Overlay Topologies and Dynamics of P2P-TV Systems: The Case of SopCast	<i>I. Bermudez, M. Mellia, and M. Meo</i>	1863
Practical Recommendations on Crawling Online Social Networks	<i>M. Gjoka, M. Kurant, C. T. Butts, and A. Markopoulou</i>	1872
Multigraph Sampling of Online Social Networks	<i>M. Gjoka, C. T. Butts, M. Kurant, and A. Markopoulou</i>	1893

Calls for Papers

Topic	Manuscript Due Date	Page
Next-Generation Spectrum-Efficient and Elastic Optical Transport Networks	December 1, 2011	1906
Cognitive Radio Series	January 5, 2012	1907
In-Network Computation: Exploring the Fundamental Limits	March 1, 2012	1908

Also in this Issue

Information for Authors	1909
Reprint Order Forms	1910

Upcoming Issues of the IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS

Topic	Publication Date
Advances in Military Networking and Communications	December 2011
Game Theory in Wireless Communications	January 2012
Cooperative Networking — Challenges and Applications	February 2012
Femtocell Networks	April 2012
Broadband Wireless Communications for High Speed Vehicles	May 2012
Communications Challenges and Dynamics for Unmanned Autonomous Vehicles	June 2012
QoE-Aware Wireless Multimedia Systems	August 2012
Smart Relays	September 2012
