

Michalis Faloutsos

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Curriculum Vitae

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Personal Information

Nationality : Greek, Canadian
Languages : English and Greek (fluent), French (good))

Research Interests

- Internet routing and measurements
- Security: intrusion detection and web
- Complex systems and network topology
- Routing: protocols, measurements, security

Education

- 1995 - 1999**: PhD in Computer Science; Department of Computer Science, **University of Toronto**, Canada; *"The Greedy, the Naive and the Optimal Multicast Routing: from Theory to Internet Protocols"*. Supervised by: R. Pankaj, K. C. Sevcik, A. Banerjea.
- 1993 - 1995**: Master of Science in Computer Science; Department of Computer Science, **University of Toronto**, Canada; *"Corrections, Improvements, Simulations and optiMSTic Algorithms for the Distributed Minimum Spanning Tree Problem"* Supervised by: M. Molle.
- 1988 - 1993**: A five-year Bachelor's Degree in the Department of Electrical and Computer Engineering, **National Technical University of Athens**, Greece; GPA : 9.14/10 (Excellent)

Highlights and Exposure

1. Received the prestigious ACM Test of Time award for the paper "On Power-Law Relationships of the Internet Topology" in 2010. The award recognizes work published 10 to 12 years that is deemed to be an "outstanding paper whose contents are still a vibrant and useful contribution today". The co-authored brothers' paper is also known widely as the "three Faloutsos paper" and has been cited over 3000 times according to Google Scholar as of 2010.
2. Received a best paper award at IEEE SECON 2010, for the paper "On the Uplink Capacity of Hybrid Cellular Ad hoc Networks", co-authored by S. Vural, E. Law, S. Krishnamurthy, and M Faloutsos. IEEE SECON is a top tier conference in the wireless network arena.
3. Received a nomination for the best paper award at ACM MOBICOM 2007 for the paper "MDG: Measurement-Driven Guidelines for 802.11 WLAN Design", co authored by I. Broustis, K. Papagiannaki, S. Krishnamurthy, M. Faloutsos, and V. Mhatre. MOBICOM is among the top-3 conferences for wireless network research.
4. Co-authored a paper, which received publicity in the popular electronic and printed press. The paper is titled "Is P2P dying or just hiding?". The article was the main focus of an article in the Wired magazine website. The press release article: "Song-Swap Networks Still Humming"

discusses the findings of our paper. The Wired magazine is a popular computer magazine with a broad audience.

<http://www.wired.com/news/digiwood/0,1412,65427,00.html>

The paper was referenced in the PC Magazine, in its December 2004 issue. The paper was also featured and cited in many other electronic news-cites such as: (a) USA Today: "The rise and fall (?) of P2P music downloading". <http://www.usatoday.com/tech/columnist/ericjsinrod/2004-10-27-sinrod.x.htm>, (b) ACM Tech News - Oct 29 electronic bulletin, (c) Slashdot, a major site for software and systems news, (d) Congressional Internet Caucus and its Advisory Committee: which consists of Congress persons, <http://www.netcaucus.org>.

5. Received the best paper award for the paper "Is Someone Tracking P2P Users", A. Banerjee, M. Faloutsos and L. Bhuyan, at IFIP Networking 2007.

The paper also attracted significant attention from major technical news forums such as: digg.com, arstechnica.com, Torrentfreak.com etc.

6. Authored the widely read "You must be joking..." editorial column in ACM SIGCOMM Computer Communication Review. Apart from appearing in the hardcopy of the journal, each column measures up to roughly 20,000 downloads from the official website. The column discusses issues relevant to the research community with a humorous slant.

Startups and Technology Transfer

1. Was member of the founding team of Streaming Engineering in 2006, a sensor-based marketing startup, that received 200K Euros funding from the Cypriot government, but is now not active.
2. Co-founded StopTheHacker (www.stopthehacker.com) in 2008, a web-security start-up, which received two SBIR awards from the National Science Foundation and closed its first round of institutional money in Dec 2011.

Honors and Awards

1. Excellence in Teaching Award, 2003-2004, from the College of Engineering, UCR (awarded to one professor each year).
2. Ontario Graduate Scholarship (1997) offered by the Ministry of Education and Training.
3. Teaching Assistant Award, Computer Science Department, U. of Toronto, Spring '96, second best among 120 TAs.
4. Connaught Scholarship (1994,1995,1996) a prestigious scholarship (offered to 2 out of 150 graduate students in CS) offered by the School of Graduate Studies of the University of Toronto.
5. University of Toronto Open Fellowship (1993), along with a Differential Fee Waiver for international students.
6. Annual awards for being in the top ten of the class of 150 students at the N.T.U. of Athens (1988, 1989, 1991).

Grants and External Funding

30. "Understand and Utilize Context-Aware Information Dissemination in Social Media", UCR part: \$450K. DARPA (under SMISC), 1/1/2012 - 12/31/2014. Lead by IBM. PI from UCR: M. Faloutsos.
29. "Application Classification Research", \$35K, Narus Inc. 1/1/2011 - 12/31/2011. PI: M. Faloutsos.
28. "GraphWare: Using Graphs to Identifying Malware Traffic on the Internet based on their Community Structure and their Packet-Level Behavioral Characteristics", \$50K, Lawrence Livermore National Lab 1/1/2011 - 10/1/2011. PI: M. Faloutsos.
27. CTA in Network Science, part of the Interdisciplinary Research Center led by BBN, UCR part: \$1.5M, Army Research Office, W911NF-09-2-005 10/1/09 - 10/1/14. PI: M. Faloutsos from UCR.
26. Behavioral Approaches to Traffic Classification: Guilt-by-Association and Polymorphic Blending Detection, \$40K, Lawrence Livermore National Lab 1/1/2010 - 10/1/2010. PI: M. Faloutsos.
25. Traffic Classification in the backbone, \$40K, Narus Inc. Unrestricted Gift.
24. IIS: Collaborative Research: Interactive and intelligent searching of biological images by query and network navigation with learning capabilities, \$1,100,000, NSF IIS 0808770, 08/15/08 - 07/30/11. PI: E. Keogh, Co-PIs: M. Faloutsos, P. De Lay. J. Baldwin, Amit Roy-Chowdhury, Eyalem Abebe, Manuel Mundo
23. A Graph-Based Approach to Traffic Monitoring and Application Classification \$250,000, NSF NETS-NECO 0832069, Period: 1/1/09-12/30/11. PI: M. Faloutsos
22. How Well Can We Detect VoIP and Video Traffic?, \$45,000, CISCO. PI: M. Faloutsos
21. I-BLOCK: Understanding and Filtering of Malicious IP Traffic \$400,000, NSF Cyber-Trust ISG 0831530, Period: 7/01/08-6/30/11. PI: A. Markopoulou, Co-PI: M. Faloutsos
20. Automated Traffic Classification: Benchmarks and Novel Tools, \$88,000, CISCO. PI: M. Faloutsos
19. RIDR: Towards Robust Inter-domain Routing: Measurements, Models, and Deployable Tools, \$249,000 (UCR part), Period: 7/01/07-6/30/10. PI: M. Faloutsos, Co-PI: C. Faloutsos
18. Gift from Intel, \$25,000, 2007.
17. ARSENAL: A cross layer ARchitecture for SEcure resilieNt tacticAL mobile ad hoc networks, \$1,000,000 UCR Part, \$2M total, supported by Dept. of Defense under the MURI program, 2007-2012. PI: S. Krishnamurthy Co-PIs: M. Faloutsos (UCR part)
16. NeTS-NBD: Physical Layer Dependent Neighbor Discovery and Topology Management in Ad hoc Networks, 2006- 2009: \$388,000, supported by NSF PI: S. Krishnamurthy, Co-PIs: N. Young, M. Faloutsos

15. Analyzing and Modeling Hybrid (Cellular-Ad hoc) Networks, 2006: \$98,000, Supported by Qualcomm and MICRO matching program
Co-PI: S. Krishnamurthy
14. Preliminary Research on Development of a Scale-Free Network Approach to Animal Identification, 2006: \$10,000
Supported by UCR Interdisciplinary Teams and Networks Program
PI: P. De Ley, Co-PI: E. Keogh
13. Gift from Intel, \$10K, 2006.
12. CRI: Imaging and Non-Imaging Sensor Laboratory for Urban Disaster Management, 2006: \$162,601
Supported by NSF CNS 05-51719
PIs: E. Turncel, V. Kalogeraki, S. Krishnamurthy, A. K. Roy-Chowdhury, V. Sundararajan Senior Personnel: M. Faloutsos,
Duration 03/01/06 - 02/28/09.
11. Understanding and Improving the Transport Layer Performance in MANETs, 2004: \$73,478
Supported by Qualcomm Inc. and MICRO
Co-PI: S. Krishnamurthy
10. NetMine: Finding Patterns in Network Data, 2002: \$120,000
Co-PI: Christos Faloutsos, NSF IIS-0208950
9. SWIFT: Secure Wireless Fault-Tolerant Tunable Networks, 2001: \$2,200,000
Supported by DARPA, Fault Tolerant Networks.
Co-PIs: C. Ravishankar, S. Krishnamurthy, S. Tripathi
8. Analysis of the Internet Topology, 2000: \$500,000
Supported by DARPA, Network Modeling and Simulation, N66001-00-1-8936
Co-PI: C. Faloutsos
7. Multicast Protocols and Topology Models for the Internet, 2000: \$376,926
Supported by NSF, CAREER award ANI-9985195
6. Qos Routing and Voice over IP, 2000: \$80,000
Supported by Tata Consulting Services Inc.
Co-PIs: C. Ravishankar, M. Molle, S. Tripathi
5. Infrastructure Support for Network-Based Content Delivery, 2001: \$154,000 plus \$500,000 in-kind
Supported by Tata Consulting Services Inc.
Co-PIs: C. Ravishankar, S. Tripathi, M. Molle
4. Infrastructure Support for Network-Based Content Delivery, 1999: \$233,405.
UC Digital Innovation Programm (DIMI) - matching fund
Co-PIs: C. Ravishankar, M. Molle, S. Tripathi
3. Improving QoS for the Next Generation Internet, 1999: \$150,000
Supported by Nortel and the CoRe matching program
Co-PIs: M. Molle, S. Tripathi
2. Graduate Assistance in Areas of National Need (GAAN), 2000: \$201,999
Supported by U.S. Department of Education
Co-PIs: V. Tsotras, M. Molle, M. Chrobak
1. Gift \$25,000 from AT&T, 2000.
Shared by: D. Gunopulos, C. Ravishankar

Publications

Journals

31. "*iDispatcher: A Unified Platform for Secure Planet-Scale Information Dissemination*", Md Sazzadur Rahman, Guanhua Yan, Harsha Madhyastha, M. Faloutsos, Stephan Eidenbenz, and Michael Fisk, to appear in *Journal of Peer-to-Peer Networking and Applications*, Springer, 2012.
30. "*SUT: Quantifying and mitigating URL typosquatting*", Anirban Banerjee, Md Sazzadur Rahman, Michalis Faloutsos, *Computer Networks (COMNET)* by Elsevier, Vol. 55, No. 13. (15 September 2011), pp. 3001-3014
29. "*Graption: A Graph-based P2P Traffic Classification Framework for the Internet Backbone*", Marios Iliofotou, H. Kim, P. Pappu, M. Faloutsos, M. Mitzenmacher, and G. Varghese, *Computer Networks (COMNET)* by Elsevier, Volume: 55, Issue: 8, 2011.
28. "*Obtaining Provably-Legitimate Internet Topologies*", Yihua He, Michalis Faloutsos, Srikanth V. Krishnamurthy, Marek Chrobak, *IEEE/ACM Transactions on Networking*, to appear.
27. "*Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks*", Gentian Jakllari, Stephan Eidenbenz, Nicolas Hengartner, Srikanth V. Krishnamurthy and Michalis Faloutsos, *IEEE Trans. on Mobile Computing*, vol. 11, no. 1, January 2012.
26. "*Measurement-Driven Guidelines for 802.11 WLAN Design*", I. Broustis, K. Papagiannaki, S. V. Krishnamurthy, M. Faloutsos and V. Mhatre. *IEEE/ACM Transactions on Networking*, 18(3), pp. 722 - 735, 2010.
25. "*Downlink Capacity of Hybrid Cellular - Ad hoc Networks*" L.K. Eric Law, K. Pelechrinis, Srikanth V. Krishnamurthy and Michalis Faloutsos, *IEEE/ACM Trans. on Networking*, 18(1), pp. 243 - 256, 2010.
24. "*Lord of the Links: A Framework for Discovering Missing Links in the Internet Topology*" Yihua He and G. Siganos and Michalis Faloutsos and Srikanth V. Krishnamurthy, *IEEE/ACM Trans. on Networking*, *IEEE/ACM Trans. Netw.* 17(2): 391-404 (2009).
23. "*Routing in Vehicular Networks: Feasibility, Modeling, and Security*" I. Broustis and M. Faloutsos, *International Journal of Vehicular Technology* Volume 2008 (2008), ID 267513, 8 pages, doi:10.1155/2008/267513
22. "*The P2P War: Someone is Monitoring your Activities*", A. Banerjee, M. Faloutsos and L. Bhuyan, *Computer Networks (COMNET)* by Elsevier), 52, 6, 1272-1280, 2008.
21. "*Sampling Large Internet Topologies for Simulation Purposes*", V. Krishnamurthy, M. Faloutsos, M. Chrobak, Li Lao, J-H. Cui, and Allon G. Percus *Computer Networks*, 51(15):4284-4302, 2007.
20. "*Clustering by common friends finds locally significant proteins mediating modules*", B. Andreopoulos and A. An and M. Faloutsos and X. Wang and M. Schroeder, *BIONFORMATICS*, *Oxford Journals*, 23 (9): 1124-1131, 2007.
19. "*Multi-band Media Access Control in Impulse-Based UWB Ad hoc Networks*", I. Broustis, M. Molle, S. Krishnamurthy, M. Faloutsos and J. Foerster, *IEEE Transactions on Mobile Computing*, 6(4), April 2007.
18. "*A Cross-Layer Framework for Exploiting Virtual MISO Links in Mobile Ad-hoc Networks*", G. Jakllari, S. V. Krishnamurthy, M. Faloutsos, P. Krishnamurthy and O. Ercetin, *IEEE Transaction on Mobile Computing*, 6(6): 579-594, 2007.
17. "*On Broadcasting with Cooperative Diversity in Multi-hop Wireless*", G. Jakllari, S. V. Krishnamurthy, M. Faloutsos and P. V. Krishnamurthy, *IEEE JSAC special issue on Cooperative Communications and Networking*, 6 (3): 264-279, 2007.

16. "A New Binary Conflict Resolution based MAC protocol for Impulse-Based UWB Ad hoc Networks", I. Broustis, M. Molle, S. Krishnamurthy, M. Faloutsos and J. Foerster, Journal of Wireless Communications and Mobile Computing, Special Issue on Wireless Ad hoc Networks: Technologies and Challenges, pp 933-949, 2006.
15. "A novel adaptive protocol for lightweight efficient multicasting in ad hoc networks", L.K. Law, S.V. Krishnamurthy and M. Faloutsos Computer Networks Journal, 51(3): 823-834, 2007.
14. "Understanding and Exploiting the Tradeoffs between Broadcasting and Multicasting in Mobile Ad Hoc Networks", L.K. Law, S.V. Krishnamurthy and M. Faloutsos, IEEE Transactions on Mobile Computing, Volume 6, Issue 3, pp 264-279, March 2007.
13. "DART: Dynamic Address Routing for Scalable Ad Hoc and Mesh Networks", J. Eriksson, M. Faloutsos, and S. V. Krishnamurthy accepted for publication in ACM Transactions on Networking, Volume 15, Issue 1, pp 119 - 132, February 2007.
12. "Jellyfish: A Conceptual Model for the AS Internet Topology" Journal of Computer Networks" G. Siganos, M. Faloutsos, L. Tauro, Journal of Communications and Networks, vol. 8, no. 3, pp 339-350, Sep 2006.
11. "AQoS: Scalable QoS Multicast Provisioning in Diff-Serv Networks", J. Cui, L. Lao, M. Faloutsos, M. Gerla, Computer Networks by Elsevier, vol. 50, no. 1, pp 80-105, 2005.
10. "Application versus Network Layer Multicasting in Ad Hoc Networks: the ALMA Routing Protocol" M. Ge, S.V. Krishnamurthy, M. Faloutsos, Ad Hoc Networks Journal (by Elsevier), 4(2): 254-282, 2006.
9. "The case for a Systematic Approach to Wireless Mobile Network Simulation", J. Jobin, M. Faloutsos and S. Tripathi, Journal of High Speed Networks, vol. 14, no. 3, pp 243-262, 2005.
8. "Long-range dependence: Ten years of Internet traffic modeling", T. Karagiannis, M. Faloutsos and M. Molle, IEEE Internet Computing, Special Issue in "Measuring the Internet", vol. 8, no. 5, pp 57-64, 2004.
7. "A Linear-Time Optimal-Message Distributed Algorithm for Minimum Spanning Trees", Michalis Faloutsos and Mart Molle, Distributed Computing, vol. 17, no. 2, pp. 151-170, August, 2004.
6. "A User-Friendly Self-Similarity Analysis Tool", Thomas Karagiannis, Michalis Faloutsos, Mart Molle Special Section on Tools and Technologies for Networking Research and Education, ACM SIGCOMM Computer Communication Review, vol. 33, no. 3, pp. 81-93, 2003.
5. "An Architecture for Scalable, Efficient and Fast Fault-Tolerant Multicast Provisioning", Jun-Hong Cui, M. Faloutsos, and M. Gerla IEEE Network special issue on Protection, Restoration, and Disaster Recovery, vol. 18, no.2, pp. 26-34, March, 2004.
4. "Power-Laws and the AS-level Internet Topology", Georgos Siganos, Michalis Faloutsos, Petros Faloutsos, Christos Faloutsos, IEEE/ACM Transactions on Networking, volume 11, no. 4, pp. 514-524, 2003.
3. "The Effect of Asymmetry on the On-line Multicast Routing Problem" M. Faloutsos, R. Pankaj, K. Sevcik, International Journal on Foundations in Computer Science, Vol. 13, No. 6, pp. 889-910, 2002.
2. "QoS-Aware Multicast Routing for the Internet: The Design and Evaluation of QoSMIC", S. Yan, M. Faloutsos and A. Banerjee, IEEE/ACM Trans. on Networking, volume 2, number 1, pp. 54-66, Feb 2002
1. "Using Statistical Data for Reliable Mobile Communications" J. Jobin, S. Tripathi, M. Faloutsos and S. Gokhale, Journal of Wireless Communications and Mobile Computing Special Issue on "Reliable Transport Protocols for Mobile Computing", Feb, 2002.

Peer Reviewed Conferences and Workshops

98. "Graph-based Analysis and Prediction for Software Evolution", P. Bhattacharya, M. Iliofotou, I. Neamtiu, M. Faloutsos, International Conference on Software Engineering, ICSE 2012, Zurich, June 2012. (87/408)
97. "Malicious Android Applications in the Enterprise: What Do They Do and How Do We Fix It?", ICDE Workshop on Secure Data Management on Smartphones and Mobiles, 2012, to appear.
96. "SubFlow: Towards Practical Flow-Level Traffic Classification.", Guowu Xie, Marios Iliofotou, R. Keralapura, A. Nucci, and M. Faloutsos, to appear at IEEE INFOCOM (mini-conference), March 2012. (24%)
95. "SyFi: A Systematic Approach for Estimating Stateful Firewall Performance", Yordanos Beyene, Harsha Madhyastha, Michalis Faloutsos, to appear at Passive and Active Measurements Conference (PAM) 2012 Vienna, Austria, March 12-14, 2012 (30%)
94. "Threshold Conditions for Arbitrary Cascade Models on Arbitrary Networks", B. Aditya Prakash, Deepayan Chakrabarti, Michalis Faloutsos, Nicholas Valler, and Christos Faloutsos, ICDM 2012. (8%)
93. "Analyzing interaction communication networks in enterprises and identifying hierarchies", Yi Wang, M. Iliofotou, M. Faloutsos, Bin Wu, IEEE Network Science Workshop (NSW), 2011.
92. "Network-level characteristics of Spamming: An empirical analysis, Marios Kokkodis, Michalis Faloutsos and Athina Markopoulou, IEEE ICNP FIST Workshop (Future Internet Security and Trust), Vancouver, October, 2011. (7/19)
91. "A Unified Metric for Routing and Rate Adaptation in Multi-Rate Wireless Mesh Networks", Tae-Seok Kim, Gentian Jakllari, Srikanth V. Krishnamurthy, Michalis Faloutsos IEEE MASS 2011, Valencia, Spain 2011. (20%)
90. "XLR: Tackling the Inefficiency of Landmark-based Routing in Large Wireless Sensor Networks", Xuetao Wei, Nicholas Valler, Harsha Madyastha, Michalis Faloutsos, Ting-Kai Huang IEEE GLOBECOM 2011 - Ad-hoc and Sensor Networking Symposium, Houston TX, Dec 2011. (36%)
89. "Coping with Packet Replay Attacks in Wireless Networks", Zi Feng, Jianxia Ning, Ioannis Broustis, Konstantinos Pelechrinis, Srikanth V. Krishnamurthy, Michalis Faloutsos, IEEE SECON 2011, June 27-30, Salt Lake City, 2011.
88. "Non-Binary Information Propagation: Modeling BGP Routing Churn", Nicholas Valler, M. Butkiewicz, B. Aditya Prakash, Michalis Faloutsos, Christos Faloutsos In Network Science for Communication Networks, NetSciCom 2011, (colocated with INFOCOM 2011)
87. "PhishDef: URL Names Say It All", Anh Le, Athina Markopoulou, Michalis Faloutsos, IEEE INFOCOM miniconference, Shanghai, 2011.
86. "Epidemic Spread in Mobile Ad Hoc Networks: Determining the Tipping Point", Nicholas Valler, B. Aditya Prakash, Hanghang Tong, Michalis Faloutsos, Christos Faloutsos IFIP NETWORKING 2011, Valencia, Spain.
85. "Profiling-by-Association: A Resilient Traffic Profiling Solution for the Internet Backbone", Marios Iliofotou, B. Gallagher, T. Eliassi-Rad, G. Xie, and M. Faloutsos. In ACM CoNEXT, December 2010.
84. "Virus Propagation on Time-Varying Networks: Theory and Immunization Algorithms", B. Aditya Prakash, Hanghang Tong, Nicholas Valler, Michalis Faloutsos, Christos Faloutsos, ECML-PKDD 2010, Barcelona
83. "Characterizing the Scam Hosting Infrastructure", TK Huang, Nicholas Valler, M. Faloutsos, IEEE Globecom 2010 - Next Generation Networking Symposium, 2010.

82. *"Homophily in Application Layer and its Usage in Traffic Classification"*, B. Gallagher, Marios Iliofotou, T. Eliassi-Rad, and M. Faloutsos, In IEEE INFOCOM (mini-conference), March 2010. Acceptance: 382/1575 (24%).
81. *"On the Uplink Capacity of Hybrid Cellular Ad hoc Networks"*, Vural, S., Law, L.K., Krishnamurthy S.V., and Faloutsos, M., IEEE SECON 2010, Boston, MA. **Best paper award**
80. *"A First Step Towards Understanding Popularity in YouTube"*, Gloria Chatzopoulou, Cheng Sheng, Michalis Faloutsos Second International Workshop on Network Science for Communication Networks (NetSciCom) March 19, San Diego, USA, 2010 (In Conjunction with IEEE Infocom 2010).
79. *"Exploiting Dynamicity in Graph-based Traffic Analysis: Techniques and Applications"*, Marios Iliofotou, M. Faloutsos, and M. Mitzenmacher, ACM CONEXT, Rome, 2009.
78. *"Spamming Botnets: Are we losing the war?"*, M. Kokkodis and M. Faloutsos, Conference on Email and Anti-Spam, Mountain View, CA, July 2009.
77. *"Impact of IT Monoculture for End Host Intrusion Detection"* D. Barman, J. Chandrashekar, M. Faloutsos, L. Huang and N. Taft, ACM SIGCOMM Workshop on Research on Enterprise Networking, Barcelona, 2009. (13/24)
76. *"BGP-lens: Patterns and Anomalies in Internet Routing Updates"* B. A. Prakash, N. Valler, D. Andersen, M. Faloutsos and Christos Faloutsos, ACM SIGKDD'09, industrial track, Paris 2009. (The 100-th published peer-reviewed paper.)
75. *"Graph-based P2P Traffic Classification at the Internet Backbone"* M. Iliofotou, H. Kim, M. Faloutsos, M. Mitzenmacher, P. Pappu, G. Varghese IEEE Global Internet Symposium, 2009 (12/35)
74. *"Internet Traffic Classification Demystified: Myths, Caveats, and the Best Practices"*, H. Kim, KC Claffy, M. Fomenkova, D. Barman, M. Faloutsos, KY Lee ACM CoNEXT, Madrid, Spain, Dec 2008. (29/166 = 17%)
73. *"Profiling Podcast-Based Content Distribution"*, Anirban Banerjee and M. Faloutsos and Laxmi Bhuyan IEEE Global Internet, (co-located with INFOCOM 2008), Phoenix, AZ, USA (Acceptance Ratio: 15/43)
72. *"The eBay Graph: How Do Online Auction Users Interact?"* Yordanos Beyene and M. Faloutsos and Polo Chau and Christos Faloutsos IEEE Global Internet, (co-located with INFOCOM 2008), Phoenix, AZ, USA (Acceptance Ratio: 15/43)
71. *"Link Positions Matter: A Noncommutative Routing Metric for Wireless Mesh Networks"*, G. Jakllari, S. Eidenbenz, N. Hengartner, S. V. Krishnamurthy and M. Faloutsos IEEE INFOCOM 2008, Phoenix, AZ, USA (Acceptance Ratio: 21%)
70. *"Capacity of Hybrid Cellular-Ad hoc Data Networks"*, L.K. "Eric" Law, S. V. Krishnamurthy and M. Faloutsos IEEE INFOCOM 2008, Phoenix, AZ, USA (Acceptance Ratio: 21%)
69. *"Characterizing and Modelling Clustering Features in AS-Level Internet Topology"*, Yan Li, Jun-Hong Cui, Dario Maggiorini, and Michalis Faloutsos IEEE INFOCOM'08, Phoenix, Arizona, USA, April 13-18, 2008 (Acceptance Ratio: 21%)
68. *"Policy-Aware Topologies for Efficient Inter-Domain Routing Evaluations"*, Y. He and S. V. Krishnamurthy and M. Faloutsos and M. Chrobak IEEE INFOCOM 2008 Mini-Conference, Phoenix, AZ, USA (Acceptance Ratio: 9.3% 85/900)
67. *"Cyber-Fraud is One Typo Away"*, Anirban Banerjee and Dhiman Barman and Michalis Faloutsos and Laxmi Bhuyan IEEE INFOCOM 2008 Mini-Conference, Phoenix, AZ, USA (Acceptance Ratio: 9.3% 85/900)

66. "Assessing Link Quality in IEEE 802.11 Wireless Networks: Which is the Right Metric?", A. Vlavianos, E. Law, I. Broustis, S. V. Krishnamurthy and M. Faloutsos. IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), Invited Paper, Cannes, France, September 2008.
65. "Network Monitoring Using Traffic Dispersion Graphs (TDGs)", M. Iliofotou, P. Pappu, M. Faloutsos, M. Mitzenmacher, S. Singh, G. Varghese ACM/USENIX Internet Measurement Conference (IMC 07), San Diego, CA, October 24-26, 2007 (short paper).
64. "Routing amid Colluding Attackers", J. Eriksson, S. V. Krishnamurthy, and M. Faloutsos, IEEE ICNP 2007 (14.5%).
63. "MDG: Measurement-Driven Guidelines for 802.11 WLAN Design", I. Broustis, K. Papagiannaki, S. V. Krishnamurthy, M. Faloutsos and V. Mhatre. ACM International Conference on Mobile Computing and Networking (MOBICOM), Montreal, Canada, September 2007. (**Nominated for the best paper award**).
62. "Is Someone Tracking P2P Users", A. Banerjee, M. Faloutsos and L. Bhuyan, IFIP NETWORKING 2007, Atlanta, GA. (**best paper award**) (featured on digg.com and Torrentfreak.com)
61. "Multiple Identities in BitTorrent Networks", J. Sun, A. Banerjee and M. Faloutsos, IFIP NETWORKING 2007, Atlanta, GA.
60. "A Blueprint for a Manageable and Affordable Wireless Testbed: Design, Pitfalls and Lessons Learned", I. Broustis and J. Eriksson and S. V. Krishnamurthy and M. Faloutsos, IEEE International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TridentCom), Orlando, Florida, USA, May 2007.
59. "Profiling the End Host", T. Karagiannis, D. Papagiannaki, N. Taft and M. Faloutsos, Passive and Active Measurement Conference, PAM '07, Belgium, 2007 (21/80).
58. "Implications of Power Control in Wireless Networks: A Quantitative Study", I. Broustis and J. Eriksson and M. Faloutsos and S. Krishnamurthy Passive and Active Measurement Conference, PAM '07, Belgium, 2007 (21/80).
57. "A systematic framework for unearthing the missing links: Measurements and Impact" Y. He and M. Faloutsos and S. Krishnamurthy, Symposium on Networked Systems Design and Implementation (NSDI '07), Boston, MA, 2007 (27/113).
56. "Neighborhood Watch for Internet Routing: Can we improve the Robustness of Internet Routing Today?" G. Siganos, M. Faloutsos, IEEE INFOCOM 2007, Anchorage, Alaska.
55. "Information Survival Threshold in Sensor and P2P Networks", D. Chakrabarti, J. Leskovec, C. Faloutsos, S. Madden, C. Guestrin and M. Faloutsos IEEE INFOCOM 2007, Anchorage, Alaska.
54. "TrueLink: A Practical Countermeasure to the Wormhole Attack in Wireless Networks" J. Eriksson, S. V. Krishnamurthy, M. Faloutsos, IEEE ICNP, 12 p., S. Barbara, November 2006 (%14).
53. "Dude, where's my Peer?" A. Banerjee, A. Mitra, M. Faloutsos, IEEE Globecom, Internet Services and Enabling Technologies (ISET), 6 p., San Francisco, November 2006
52. "Evolution versus Intelligent Design: Comparing the Topology of Protein-Protein Interaction Networks to the Internet", Q. Yang, G. Siganos, M. Faloutsos, S. Lonardi ' LSS Computational Systems Bioinformatics Conference (CSB'06), 299-310, Stanford, CA, August 2006.
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50. "Overcoming the Challenge of Security in a Mobile Environment", I. Broustis, M. Faloutsos and S. Krishnamurthy First International Workshop on eSafety and Convergence of Heterogeneous Wireless Networks, (in conjunction with 25th IEEE International Performance, Computing, and Communications Conference), Phoenix, Arizona, USA, April 10-12, 2006.

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43. "Reducing Large Internet Topologies for Faster Simulations", Vaishnavi Krishnamurthy, Michalis Faloutsos, Marek Chrobak, Li Lao, Jun-Hong Cui, and Allon G. Percus In Proceedings of IFIP Networking 2005, Waterloo, Ontario, Canada, May 2-6, 2005
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41. "Justice: Flexible and Enforceable Per-Source Bandwidth Allocation", J. Eriksson, M. Faloutsos, S.V. Krishnamurthy In Proceedings of IFIP Networking 2005, Waterloo, Ontario, Canada, May 2-6, 2005
40. "Local Versus Global Power Adaptive Broadcasting in Ad Hoc Networks", Kyriakos Karenos, Asheq Khan, Srikanth Krishnamurthy, Michalis Faloutsos, Xiaohu Chen IEEE Wireless Communications and Networking Conference, 2005.
39. "Transport layer identification of p2p traffic", Thomas Karagiannis, Andre Broido, Michalis Faloutsos, kc claffy, ACM SIGCOMM/USENIX Internet Measurement Conference (IMC 2004), Taormina, Italy, October, 2004.
38. "Overlay Multicasting for Ad Hoc Networks", Min Ge, S. V. Krishnamurthy, Michalis Faloutsos, The Third Annual Mediterranean Ad Hoc Networking Workshop (Med-Hoc-Net 2004), Bodrum, Turkey, June, 2004.
37. "Understanding the Interactions between Unicast and Group Communications Sessions in Ad Hoc Networks" L. K. Law, S.V. Krishnamurthy, M. Faloutsos IFIP MWCN, Paris, October, 2004.
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35. "TCP Friendly Medium Access Control for Ad-Hoc Wireless Networks: Alleviating Self Contention", Dan Berger, Zhenqiang Ye, Prasun Sinha, Srikanth Krishnamurthy, Michalis Faloutsos, Satish Tripathi The 1st IEEE International Conference on Mobile Ad-hoc and Sensor Systems (MASS 2004), October 24-27, 2004, Fort Lauderdale, Florida, USA
34. "Is P2P dying or just hiding?", Thomas Karagiannis, Andre Broido, Nevil Brownlee, kc claffy, Michalis Faloutsos, IEEE GLOBECOM 2004 - Global Internet and Next Generation Networks, Dallas, Texas, November, 2004.
33. "Quantifying Routing Asymmetry in the Internet at the AS Level " Y. He. M. Faloutsos, S. V. Krishnamurthy IEEE GLOBECOM 2004 - Global Internet and Next Generation Networks, Dallas, Texas, November, 2004.

32. *"Analyzing BGP Policies: Methodology and Tool "*, G. Siganos, M. Faloutsos IEEE INFOCOM, Hong Kong, 2004.
31. *"Scalable Ad Hoc Routing: The Case for Dynamic Addressing "*, J. Eriksson, M. Faloutsos, S. V. Krishnamurthy IEEE INFOCOM 2004, Hong Kong, 2004.
30. *"A Nonstationary Poisson View of Internet Traffic"*, T. Karagiannis, M. Molle, M. Faloutsos, A. Broido IEEE INFOCOM, Hong Kong, 2004.
29. *"Modeling Hotspots in Wireless Cellular Network Simulation"*, J. Jobin, M. Faloutsos, S. K. Tripathi, S. V. Krishnamurthy, IEEE INFOCOM, Hong Kong, 2004. (1/5)
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26. *"Measuring and Modelling the Group Membership in the Internet"*, Jun-Hong Cui, Michalis Faloutsos, Dario Maggiorini, Mario Gerla, Khaled Boussetta, ACM SIGCOMM Internet Measurement Conference. Miami, Florida, Oct 2003.
25. *"Sampling Internet Topologies: How Small Can We Go?"*, Vaishnavi Krishnamurthy, Junhong Sun, Michalis Faloutsos, Sudhir Tauro, International Conference on Internet Computing, Las Vegas, 2003.
24. *"PeerNet: Pushing Peer-To-Peer Down the Stack"*, Jakob Eriksson, Michalis Faloutsos and Srikanth V. Krishnamurthy International Workshop on Peer-to-Peer Systems (IPTPS '03), Berkeley, Lecture Notes in Computer Science 2735, pp. 268-277, 2003.
23. *"Split TCP for Mobile Ad Hoc Networks "* Swastik Kopparty, Srikanth V. Krishnamurthy, Michalis Faloutsos, Satish K. Tripathi, Symposium on Ad-Hoc Wireless Networks (SAWN in GLOBECOM), Taipei, Taiwan, November 17-21, 2002
22. *"Scalable QoS Multicast Provisioning in Diff-Serv-Supported MPLS Networks "* Jun-Hong Cui, Jinkyu Kim, Aiguo Fei, Michalis Faloutsos, Mario Gerla, IEEE GLOBECOM, Taipei, Taiwan, November 17-21, 2002
21. *"Long-Range Dependence: Now you see it, now you don't!"* T. Karagiannis, M. Faloutsos, R. Riedi IEEE GLOBECOM - Global Internet Symposium, Taipei, Taiwan, November 17-21, 2002
20. *"BGP Routing Properties at a Large Time Scale "* G. Siganos, M. Faloutsos IEEE GLOBECOM - Global Internet Symposium, Taipei, Taiwan, November 17-21, 2002
19. *"Denial of Service Attacks at the MAC Layer in Wireless Ad Hoc Networks"*, Vikram Gupta, Srikanth Krishnamurthy, Michalis Faloutsos, MILCOM - Network Security, Anaheim, October 2002
18. *"Distance ADaptive (DAD) Broadcasting for Ad Hoc Networks "*, X. Chen, M. Faloutsos, S. V. Krishnamurthy, MILCOM, Anaheim, October 2002
17. *"Simplifying the Analysis of Wireless Network Simulation "* J. Jobin, M. Faloutsos, S. Tripathi, 2002 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS 2002), San Diego, CA, June, 2002.
16. *"A Simple Conceptual Model for the Internet Topology"*, L. Tauro, C. Palmer, G. Siganos, M. Faloutsos, IEEE GLOBECOM - Global Internet, San Antonio, Texas, November 25-29, 2001
15. *"Aggregated Multicast with Inter-Group Sharing"*, A. Fei, J. Cui, M. Gerla, M. Faloutsos, Networked Group Communications (NGC), London, November, 2001
14. *"Performance evaluation of mobile wireless networks: a new perspective"*, J. Jobin, M. Faloutsos, S. Tripathi, The Fourth ACM International Workshop on Modeling, Analysis and Simulation of Wireless and Mobile Systems (MSWiM), July 21, 2001, Rome, Italy

13. *"Aggregated Multicast: an Approach to Reduce Multicast State"*, A. Fei, J. Cui, M. Gerla, M. Faloutsos, Global Internet, San Antonio, Texas, November 25-29, 2001
12. *"Scalable QoS Multicast using tree aggregation"*, M. Gerla, A. Fei, J. Cui, M. Faloutsos, IEEE Tyrrhenian International Workshop on Digital Communications, Setp 2001, Taormina, Italy.
11. *"The Connectivity and Fault-Tolerance of the Internet Topology"*, C. Palmer, G. Siganos, M. Faloutsos, C. Faloutsos and P. Gibbons, Workshop on Network-Related Data Management (NRDM 2001) In cooperation with ACM SIGMOD/PODS 2001 Santa Barbara, May, 2001
10. *"Video Multicasting with Variable Bandwidth Requirements"*, M. Samidi, M. Faloutsos, R. Pankaj, and K. Sevcik MIS 2000, Chigago, Oct, 2000.
9. *"On Power-law Relationships of the Internet Topology"*, M. Faloutsos, P. Faloutsos and C. Faloutsos, ACM SIGCOMM'99, Cambridge MA, September 1-3, 1999.
8. *"QoS-Sensitive Routing for Real-time Multicasting"*, S. Yan, M. Faloutsos and A. Banerjea, Real-Time Internet Applications Workshop (RTAW'99), Vancouver BC, June 1, 1999.
7. *"QoSMIC: Quality of Service sensitive Multicast Internet protoCol"*, Michalis Faloutsos, Anindo Banerjea and Rajesh Pankaj, ACM SIGCOMM'98, Vancouver BC, September 2-4, 1998.
6. *"Multicast Routing with Heterogeneous Quality"*, M. Faloutsos, R. Pankaj, and K. C. Sevcik, The Fourth IEEE Workshop on the Architecture and Implementation of High Performance Communication Systems (HPCS'97), Sani Beach, Chalkidiki, Greece, June 23-25, 1997.
5. *"Bounds for the On-line Multicast Problem in Directed Graphs"*, M. Faloutsos, R. Pankaj and K. C. Sevcik, 4th International Colloquium on Structural Information and Communication Complexity (SIROCCO '97), Monte Verita, Ascona, Switzerland, July 24-26, 1997
4. *"Multicasting in Directed Graphs"*, M. Faloutsos, R. Pankaj and K. C. Sevcik, 18th Biennial Symposium on Communications, Kingston, Canada June 2-5, pp. 29-32, 1996.
3. *"BIVTECI: A Bibliography Visualization Tool"*, D. Modjeska, V. Tzerpos, P. Faloutsos and M. Faloutsos, in the CD-ROM of the Proceedings of CASCON '96, Toronto, Canada, 1996.
2. *"What Features Really Make Distributed Minimum Spanning Tree Algorithms Efficient?"*, M. Faloutsos and M. Molle, International Conference on Parallel and Distributed Systems 1996 (ICPADS'96), Tokyo, Japan.
1. *"Optimal distributed algorithm for minimum spanning trees revisited"*, M. Faloutsos and M. Molle, Fourteenth ACM Symposium on Principles of Distributed Computing (PODC '95), Ottawa, Ontario, August 1995.

Book Chapters

1. *"Routing Scalability in MANETs"*, J. Eriksson, S.V. Krishnamurthy and M. Faloutsos, in Theoretical and Algorithmic Aspects of Sensor, Ad Hoc and Peer-to-Peer Networks, Jie Wu edited. CRC Press, 2004.
2. *"Internet Topology"*, Yihua He, Georgos Siganos, Michalis Faloutsos Encyclopedia of Complexity and Systems Science 2009, Springer, Editor-in-chief: Robert A. Meyers, pp 4930-4947.

Patents

1. *Automated identification of phishing, phone and malicious websites*, Filed patent, USPTO 12/689,986.

2. *Security Level Determination of Web Sites Using Numeric and Visual Identifiers*, Filed patent, USPTO 61/364,400.
3. *EDWAR: Event Driven Website Auto-Restoration*, Filed patent, USPTO 61/372,863.

Short Papers and Abstracts

1. *"Generating Small Realistic Topologies"*, J. Sun M. Faloutsos Network Group Communications, poster, 2000.
2. *"Fault-Tolerance and Robustness of the Internet topology"*, S.L. Tauro and M. Faloutsos, PRDC 2000, (abstract), Los Angeles, 2000
3. *"Multicast Routing Algorithms for Real-time Dynamic Applications on ATM Networks"*, M. Faloutsos and I. Katzela, 9th IEEE Workshop on Local and Metropolitan Area Networks (LAN-MAN'98), Banff, Alberta, Canada, May 1998.

Internet Drafts

1. A. Banerjea, M. Faloutsos and R. Pankaj, *"Protocol Specification of QoS MIC: A Quality of Service sensitive Multicast Internet protoCol"*, IETF-IDMR Internet Draft: draft-banerjea-qosmic-00.txt.
2. Jun-Hong Cui, Mario Gerla, Khaled Boussetta, Michalis Faloutsos, Aiguo Fei, Jinkyu Kim, Dario Maggiorini, *"Aggregated Multicast: A Scheme to Reduce Multicast States"* February 2002, Internet Draft.

Tutorials

- SIGMETRICS 2003, half day, *"Internet Research meets Data Mining: Current Knowledge and New Tools"* (jointly with C. Faloutsos), San Diego, June 2003.
- INFOCOM 2003, full day, *"Data-mining the Internet"* (jointly with C. Faloutsos), San Francisco, March, 2003
- SIGCOMM 2002, full day, *"Data-mining the Internet: What we know, what we don't, and how we can learn more"* (jointly with C. Faloutsos), Pittsburgh, 2002

Seminars and Talks

- York University, Toronto, *"Web-based cyber-crime: Exploiting the Web for fun and profit"*, Dec 2011
- Narus Inc, Mountainview, *"Web-based cyber-crime: Exploiting the Web for fun and profit"*, Dec 2011
- Telefonica, Barcelona, *"Traffic Classification and User Profiling: A Graph-Based Approach"*, 2010

- UCLA, 4UC Human Complex Systems Consortium, "Traffic Classification and User Profiling: A Graph-Based Approach" Complexity Science Conference, March, 2008.
- Lawrence Livermore National Labs, "Traffic Classification and User Profiling: A Graph-Based Approach", February, 2008.
- Sprint Inc. "DART: Scalable Ad hoc Routing", August, 2004.
- Georgia Institute of Technology, "DART: The Case for Dynamic Routing in MANETs", Nov., 2003.
- DIMACS, "The Internet is like a Jellfish", Workshop on Measuring, Mapping and Modeling the Internet, May 2002 (invited talk).
- CMU, "The Hunt for Long-Range Dependence: The SELFIS Tool", Dec, 2002.
- Parallel and Distributed Simulation (PADS), "Skip the Details and Give me the Intuition", invited panel talk, May 2001.
- Sprint Labs, "The Internet Topology Evolution and Mushrooms", June 2001.
- DIMACS, "Reducing the Multicast Routing State", Workshop on Multicasting, May 2001 (invited talk).
- UCLA, "Fractals, Powerlaws, and Internet Topology", Oct 1999, Invited Talk
- Stanford U., "Fractals, Powerlaws, and Internet Topology" Invited talk at the Stanford Networking Seminar, Feb 2000

Professional Service

- TPC co-chair for IEEE NetSciCom 2012
- TPC member for IEEE NetSciCom 2011
- Guest Editor for IEEE Network, special issue on Online Social Networks, Sep 2010
- TPC for poster and demos in ACM SIGCOMM 2008
- TPC Co-Chair for IEEE Global Internet 2007
- Panel Chair in ICNP 2006
- Poster Chair in ICNP 2005
- Editor in ACM SIGCOMM Computer Communication Review, between 2005 - 2009
- TPC member ICNP 2006
- Poster Session Chair ICNP 2005
- SIGCOMM 2005: Organizing committee, poster chair
- TPC member for INFOCOM 2004, 2005
- TPC member for ICNP 2003, 2006
- Local arrangements chair ICNP 2001
- TPC member for SIGCOMM 2001
- TPC member for IEEE GLOBECOM and Global Internet 2001, Global Internet 2002, Global Internet and Next Generation Networks 2004.
- TPC member for IFIP Networking 2004.
- Reviewer for the IEEE Journal on Selected Areas in Communications, IEEE INFOCOM '97 and '98, IEEE GLOBECOM '98, the Journal of Theoretical Computer Science and various conferences.

- Session chair for INFOCOM 2000 and 2001, SIGCOMM 2001
- Panelist at DIMACS Workshop on Internet Measurements and Modeling, May 2001
- Panelist at DIMACS Workshop on Multicasting, May 2001
- Member of the Inter-Domain Multicast Routing group (IDMR) of the Internet Engineering Task Force (IETF).
- Member of the Engineering Chamber of Greece

University, College, and Departmental Service

- Member of the Academic Senate Undergraduate Council, 2006 - 2008
- Chair of the Research Committee, (CS)
- Member of the Instructional Committee (CS), 2004-2006
- Faculty advisor of the ACM student club, 2002-2004
- Judge at the High School Science Fair, Poster Competition, May, 2003
- Member of the Executive Committee of the Engineering College Sep 2001 - Sep 2003
- Speaker at Industry Day, 2001, and 2002
- Speaker at the Freshman Academic Workshop Panel, Jan 2002
- Speaker for the highschool outreach event, Feb 2001
- Speaker for Preview Day for highschool students, Oct 2001
- Committee member for Mohan De Souza's Master thesis, 2001
- Member of the graduate program team; reformed the graduate program

Student Supervision

PhD students

1. Jobin James, 2004: co-supervised PhD
2. George Siganos, 2005: supervised PhD
3. Thomas Karagiannis, 2006: supervised PhD
4. Jakob Eriksson, 2006: co-supervised PhD
5. Lap-Kong "Eric" Law, 2007: co-supervised PhD
6. Yihua He, 2007: co-supervised PhD
7. Gentian Jakllari, 2007: co-supervised PhD
8. Ioannis Broustis, 2007: co-supervised PhD
9. Dhiman Barman, 2008: co-supervised PhD
10. Anirban Banerjee, 2008: co-supervised PhD
11. Marios Iliofotou, 2011: supervised PhD

Master's students

1. Junhong Sun, 2000: supervised Master's thesis
2. Qiao Sun, 2001: supervised Master's project
3. Leslie Tauro, 2001: supervised Master's thesis
4. Michael Samidi, 2001: supervised Master's project
5. Vaishnavi Krishnamurthy, 2004: supervised Master's project
6. Jin Sun, 2006: supervised Master's project
7. Marios Kokkodis, 2010: supervised Master's thesis

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