

## CURRICULUM VITAE

<b>Education</b>	<p>STANFORD UNIVERSITY <span style="float: right;">Stanford, CA</span>  <i>Department of Electrical Engineering</i> <span style="float: right;">Jan. 1999 - Dec. 2002</span>  <b>Ph.D. degree in Electrical Engineering.</b> Thesis title: "Probabilistic Methods for Web Caching and Performance Prediction of IP Networks and Web Farms", supervised by Prof. Balaji Prabhakar.</p>
	<p>STANFORD UNIVERSITY <span style="float: right;">Stanford, CA</span>  <i>Department of Electrical Engineering</i> <span style="float: right;">Sep. 1997 - Jan. 1999</span>  <b>M.S. degree in Electrical Engineering.</b> GPA: 4.0/4.0. (Actual GPA 4.05/4.0.)</p>
	<p>NATIONAL TECHNICAL UNIVERSITY OF ATHENS <span style="float: right;">Athens, Greece</span>  <i>Electrical and Computer Engineering Department</i> <span style="float: right;">Sep. 1992 - June 1997</span>  <b>Diploma in Electrical and Computer Engineering.</b> GPA: 9.74/10.0. (Graduated ranking 1st in the class of '97.)</p>
<b>Work/ Research Experience</b>	<p>UNIVERSITY OF SOUTHERN CALIFORNIA <span style="float: right;">Los Angeles, CA</span>  <i>Associate Professor</i> <span style="float: right;">May. 2009 - now</span>  <i>Assistant Professor</i> <span style="float: right;">Sep. 2003 - Apr. 2009</span>  <i>Electrical Engineering and (jointly) Computer Science departments</i>  Modelling, design, and performance analysis of a variety of networks including the Internet, mobile ad hoc networks, delay and disruptive tolerant networks, sensor networks, mesh networks, peer to peer networks and the web. Design of protocols and algorithms to solve problems related to such systems.</p>
	<p>STANFORD UNIVERSITY <span style="float: right;">Stanford, CA</span>  <i>Visiting Associate Professor</i> <span style="float: right;">Aug. 2009 - Dec. 2009</span>  <i>Electrical Engineering department</i>  <i>Postdoctoral Research Fellow</i> <span style="float: right;">Jan. 2003 - Aug. 2003</span>  Scheduling of Internet flows and multi-server systems.</p>
	<p>FINEGROUND NETWORKS INC. <span style="float: right;">Cambell, CA</span>  <i>Technology Architect</i> <span style="float: right;">Sep. 2000 - June 2001</span>  Accelerating web downloads using delta encoding.</p>
	<p>CISCO SYSTEMS <span style="float: right;">San Jose, CA</span>  <i>Summer Intern at ATM Platforms Group</i> <span style="float: right;">June 1999 - Aug. 1999</span>  Switch scheduling with QoS guarantees.</p>
	<p>NATIONAL TECHNICAL UNIVERSITY OF ATHENS <span style="float: right;">Athens, Greece</span>  <i>Research Associate</i> <span style="float: right;">Feb. 1997 - June 1997</span>  Service manager for fixed and mobile terminals.</p>
	<p>INSTITUTE NATIONAL DE TELECOMMUNICATION <span style="float: right;">Paris, France</span>  <i>Summer Intern</i> <span style="float: right;">June 1996 - Aug. 1996</span>  Wavelet transform and planar curves description.</p>
	<p>UNIVERSITY OF SOUTHERN CALIFORNIA <span style="float: right;">Los Angeles, CA</span>  <i>Instructor</i> <span style="float: right;">Sep. 2003 - now</span></p>

- Instructor for the class EE465: “Probabilistic Methods in Computer Systems Modelling”. Content: Probability, discrete and continuous time Markov chains, basic queueing. Instructor ratings: Fall 2003 4.13/5, Fall 2004 4.03/5, Fall 2005 4.37/5, Fall 2006 4.22/5, Fall 2007 4.53/5, Fall 2008 4.60/5.
- Instructor for the class EE650: “Advance Topics in Computer Networks: Mathematical tools for analyzing wired and wireless networks”. Content: Brief introductions to and applications of probability and queueing, Lyapunov functions, fluid limits and analysis, bipartite matchings and stable marriages, random walks on graphs, deterministic and stochastic optimization, statistical analysis, basic information theory, basic elements of game theory. Instructor ratings: Spring 2004 4.62/5, Spring 2005 4.67/5, Spring 2007 4.75/5, Spring 2008 4.67/5.

STANFORD UNIVERSITY

Stanford, CA

*Teaching Assistant*

Apr. 2001 - June 2001

Teaching assistant for the graduate course “Packet Switch Architectures”.

**PhD Student  
Supervision**

- Taha Bahadori (Jan. 2009 - now)
- Dimitris Antonelis (Sep. 2007 - now)
- Vlad Horia Balan (Sep. 2007 - now)
- Apoorva Jindal (Sep. 2003 - Dec. 2008, now at University of Michigan, Ann Arbor)
- Wei-Cherng Liao (Sep. 2004 - Dec. 2008, now at NetFlame, a network security company in Taiwan)
- Fragkiskos Papadopoulos (Sep. 2003 - Dec. 2007, now at CAIDA: Cooperative Association for Internet Data Analysis, San Diego, California)
- Thrasyvoulos Spyropoulos (co-advisor) (Sep. 2003 - Jun. 2006, now at ETH: Swiss federal Institute of technology, Zurich, Switzerland)

**Awards/  
Grants**

ARMY RESEARCH LABORATORY (ARL) Oct. 2009 - Sep. 2014  
CTA: Communications and Networking Academic Research Center.

Proposal Title: QUANTA: Quality of Information-Aware Networks for Tactical Applications

METRANS TRANSPORTATION CENTER GRANT/AWARD Aug. 2009 - Aug. 2010  
METRANS Transportation Center grant to conduct research on metropolitan transportation issues. Proposal title: End-to-end performance in vehicular networks with an emphasis on safety and security applications.

ACM SENIOR MEMBER AWARD Jan. 2009  
The Senior Member grade recognizes those ACM members with at least 10 years of professional experience and 5 years of continuous professional membership who have demonstrated performance that sets them apart from their peers.

IEEE SENIOR MEMBER AWARD Nov. 2008  
Qualifications for this distinction are at least ten years of professional practice and five years of significant performance as demonstrated by substantial engineering responsibility or achievement, publication of engineering and technical papers, books or inventions, and the development and teaching of engineering courses.

CISCO SYSTEMS GRANT Sep. 2008  
Research grant from the Cisco University Research Program. Proposal Title: Neighborhood centric transport for home networking environments.

NSF NETS GRANT/AWARD Aug. 2008 - Aug. 2011  
National Science foundation (NSF) award under the Networking technology and Systems (NeTS) call. Proposal title: Contention-Awareness in Mesh Transport: Theory and Practice.

CISCO SYSTEMS GRANT AND BEST PRESENTATION AWARD Apr. 2008  
This research grant from the Cisco University Research Program has been granted together with the “Best and Most Compelling Presentation and Demonstration Award” at the networking workshop “The Future of TCP: Train-wreck or Evolution?” held at Stanford University and sponsored by Cisco Systems.

NSF REU SITE GRANT/AWARD Mar. 2008 - Mar. 2011  
Grant to establish a National Science Foundation (NSF) Research Experiences for Undergraduates (REU) site within the Computer Science department at the Viterbi School of Engineering. Proposal Title: Coordination, Communication, Autonomy: Principles and Technologies.

VSoE INNOVATIVE RESEARCH FUND GRANT Dec. 2007 - Dec. 2008  
Fund to initiate a Viterbi School of Engineering (VSoE) invited workshop on Wireless Networks. Proposal title: Establishing a New USC Invited Workshop on Theory and Practice in Wireless Networks.

METRANS TRANSPORTATION CENTER GRANT/AWARD Oct. 2007 - Dec. 2008  
METRANS Transportation Center grant to conduct research on metropolitan transportation issues. Proposal title: Efficient Routing for Safety Applications in Vehicular Networks.

NSF NETS GRANT/AWARD Aug. 2005 - Aug. 2008  
National Science foundation (NSF) award under the Networking technology and Systems (NeTS) call. Proposal title: Efficient Routing in Delay Tolerant Networking.

ZUMBERGE FACULTY RESEARCH AND INNOVATION AWARD July 2005 - June 2006  
The James H. Zumberge faculty research and innovation award is granted to a selected number of Professors at the University of Southern California. Proposal title: Routing in Intermittently Connected Mobile Networks.

CHARLES LEE POWELL SCHOLARSHIP AWARD Dec. 2003 - Dec. 2004  
The Charles Lee Powell award is granted to a selected number of Assistant Professors at the University of Southern California.

ILLEANA AND ERIC BENHAMOU STANFORD GRADUATE FELLOWSHIP 1997 - 2002  
Fellowship is awarded for four years to a very select number of PhD students based on academic merit.

BEST-STUDENT NATIONAL TECHNICAL UNIVERSITY OF ATHENS AWARD 1997  
Awarded yearly to the student that graduates with the highest GPA in National Technical University of Athens.

OTHER GRADUATE STUDIES AWARDS 1997 - 1998  
Regent’s Fellowship by University of California Berkeley, Charles Lee Powell Foundation Graduate Fellowship by Caltech, Gordon Y. S. Wu Fellowship in Engineering by Princeton University, Sage Fellowship by Cornell University.

OTHER UNDERGRADUATE STUDIES AWARDS 1992 - 1997  
Hellenic National Foundation of Scholarships (IKY) award and Technical Institution of Greece (TEE) award.

**Publications** REFEREED JOURNALS

1. W.-J. Hsu, T. Spyropoulos, K. Psounis and A. Helmy. Modelling Spatial and Temporal Dependencies of User Mobility in Wireless Mobile Networks, accepted to appear at *IEEE/ACM Transactions on Networking*.
2. A. Jindal and K. Psounis. Characterizing the Achievable Rate Region of Wireless Multi-hop Networks with 802.11 Scheduling, *IEEE/ACM Transactions on Networking*, Vol. 16, No. 1, pp. 63–76, August 2009.
3. A. Jindal, and K. Psounis. Contention-Aware Performance Analysis of Mobility-Assisted Routing, *IEEE Transactions on Mobile Computing*, Vol. 8, No. 2, 145-161, February 2009.
4. T. Spyropoulos, K. Psounis, and C. Raghavendra. Efficient Routing in Intermittently Connected Mobile Networks: The Multiple-copy Case, *IEEE/ACM Transactions on Networking*, Vol. 16, No. 1, pp. 77–90, February 2008.
5. T. Spyropoulos, K. Psounis, and C. Raghavendra. Efficient Routing in Intermittently Connected Mobile Networks: The Single-copy Case, *IEEE/ACM Transactions on Networking*, Vol. 16, No. 1, pp. 63–76, February 2008.
6. F. Papadopoulos and K. Psounis. Efficient Identification of Uncongested Internet Links for Topology Downscaling, *ACM SIGCOMM Computer Communication Review (CCR)*, Vol. 37, Issue 5, pp. 39–52, October 2007
7. W.-C. Liao, F. Papadopoulos and K. Psounis. Performance Analysis of BitTorrent-like Systems with Heterogeneous Users, *Performance Evaluation, Elsevier*, Vol. 64, Issues 9–12, pp. 876-891, October 2007. (Journal publication of conference paper C1)
8. F. Papadopoulos, K. Psounis, and R. Govindan. Performance Preserving Topological Downscaling of Internet-like Networks. *IEEE Journal on Selected Areas in Communications (JSAC)*, special issue on "Sampling the Internet: Techniques and Applications", Vol. 24, No. 12, pp. 2313-2326, December 2006.
9. W.-C. Liao, F. Papadopoulos, and K. Psounis. A Peer-to-peer Cooperation Enhancement Scheme and its Performance Analysis, *Journal of Communications (JCM)*, Vol. 1, No. 7, pp. 24–35, November/December 2006.
10. A. Jindal and K. Psounis. Modelling Spatially Correlated Data in Sensor Networks, *ACM Transactions on Sensor Networks*, Vol. 2, Issue 4, pp. 466 - 499, November 2006.
11. S. Rangwala, R. Gummandi, R. Govindan, and K. Psounis. Interference-aware Fair Rate Control in Wireless Sensor Networks. *ACM SIGCOMM Computer Communication Review (CCR)*, Vol. 36, Issue 4, pp. 63–74, October 2006. (Journal publication of conference paper C3)
12. W.-C. Liao, F. Papadopoulos, and K. Psounis. An Efficient Algorithm for Resource Sharing in Peer-to-peer Networks, *Lecture Notes in Computer Science, Springer*, Vol. 3976/2006, pp. 592–605, April 2006. (Journal publication of conference paper C5)
13. K. Psounis, P. Molinero Fernandez, B. Prabhakar, and F. Papadopoulos. Systems with Multiple Servers under Heavy-tailed Workloads. *Performance Evaluation, Elsevier*, Vol. 62, Issue 1–4, pp. 456–474, October 2005. (Journal publication of conference paper C6)
14. R. Pan, K. Psounis, B. Prabhakar, and D. Wischik. SHRiNK: A Method for Enabling Scaleable Performance Prediction and Efficient Network Simulation. *IEEE/ACM Transactions on Networking*, Vol. 13, No. 5, pp. 975–988, October 2005.
15. J. Faruque, K. Psounis, and A. Helmy. Analysis of Gradient-based Routing Protocols in Sensor Networks. *Lecture Notes in Computer Science, Springer-Verlag*, Vol. 3560/2005, pp. 258–275, July 2005. (Journal publication of conference paper C9)
16. K. Psounis, A. Zhu, B. Prabhakar, and R. Motwani. Modelling Correlations in Web-Traces and Implications for Designing Replacement Policies. *Computer Networks Journal, Elsevier*, Vol. 45, No. 4, pp. 379–398, July 2004.

17. K. Psounis, R. Pan, B. Prabhakar, and D. Wischik. The Scaling Hypothesis: Simplifying the Prediction of Network Performance Using Scaled-down Simulations. *ACM SIGCOMM Computer Communication Reviews*, Vol. 33, No. 1, pp. 35–40, January 2003. (Journal publication of conference paper C23)
18. K. Psounis and B. Prabhakar. Efficient Randomized Web-Cache Replacement Schemes Using Samples from Past Eviction-Times. *IEEE/ACM Transactions on Networking*, Vol. 10, No. 4, pp. 441-454, August 2002.
19. K. Psounis, R. Pan, and B. Prabhakar. An Approximate Fair Dropping Scheme for Variable Length Packets. *IEEE Micro*, Vol. 21, No. 1, pp. 48–56, January/February 2001. (Journal publication of conference paper C26)
20. K. Psounis. Active Networks, Applications, Security, Safety, and Architectures. *IEEE Communications Surveys Magazine*, Vol. 2, No. 1, pp. 1–16, 1st quarter 1999.

#### INVITED JOURNALS

1. T. Spyropoulos, A. Jindal, and K. Psounis. An Analytical Study of Fundamental Mobility Properties for Encounter-based Protocols, *International Journal of Autonomous and Adaptive Communications Systems*, Vol. 1, Issue 1, pp. 440, July 2008.

#### REFEREED CONFERENCE PAPERS

1. S. Rangwala, A. Jindal, K.-Y. Jang, K. Psounis, and R. Govindan. Understanding Congestion Control in Multi-hop Wireless Mesh Networks. In *Proceedings of ACM MOBICOM*, pp. 291–302, San Fransisco, California, September 2008. (acceptance rate 12%)
2. F. Papadopoulos and K. Psounis. Scaling Properties of IEEE 802.11 Wireless Networks. In *Proceedings of the 6th Intl. Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt)*, 8 pages (no pp. avail.), Berlin, Germany, March 2008.
3. W.-C. Liao, F. Papadopoulos and K. Psounis. Performance Analysis of BitTorrent-like Systems with Heterogeneous Users, in *Proceedings of the 26th International Symposium on Computer Performance, Modeling, Measurements and Evaluation (IFIP Performance)*, pp. 876-891, Cologne, Germany, October 2007. (acceptance rate 23%)
4. A. Jindal, and K. Psounis. Contention-Aware Analysis of Routing Schemes for Mobile Opportunistic Networks. In *Proceedings of ACM MOBISYS, on the 1st International Workshop on Mobile Opportunistic Networking (MobiOpp)*, pp. 1–8, San Juan, Puerto Rico, June 2007.
5. F. Papadopoulos and K. Psounis, Predicting the Performance of Mobile Ad hoc Networks Using Scaled-down Replicas. In *Proceedings of IEEE International Conference on Communications (ICC)*, pp. 3928-3935, Glasgow, Scotland, June 2007.
6. W.-J. Hsu, T. Spyropoulos, K. Psounis and A. Helmy. Modeling Time-variant User Mobility in Wireless Mobile Networks, in *Proceedings of IEEE INFOCOM*, pp. 758–766, Anchorage , Alaska , USA, May 2007. (acceptance rate 18%)
7. T. Spyropoulos, K. Psounis, and C. Raghavendra. Spray and Focus: Efficient Mobility-Assisted Routing for Heterogeneous and Correlated Mobility. In *Proceedings of IEEE PERCOM, on the International Workshop on Intermittently Connected Mobile Ad hoc Networks (ICMAN)*, pp. 79–85, New York City, USA, March 2007.
8. A. Jindal and K. Psounis. Fundamental Mobility Properties for Realistic Performance Analysis of Intermittently Connected Mobile Networks. In *Proceedings of IEEE PERCOM, on the International Workshop on Intermittently Connected Mobile Ad hoc Networks (ICMAN)*, pp. 59–64, New York City, USA, March 2007.

9. S. Rangwala, R. Gummandi, R. Govindan, and K. Psounis. Interference-aware fair rate control in wireless sensor networks. In *Proceedings of ACM SIGCOMM*, pp. 63–74, Pisa, Italy, September 2006. (acceptance rate 12%)
10. A. Jindal and K. Psounis. Performance Analysis of Epidemic Routing under Contention. In *Proceedings of IWCMC*, pp. 539–544, Vancouver, Canada, July 2006.
11. T. Spyropoulos, K. Psounis, and C. Raghavendra, Performance Analysis of Mobility-assisted Routing. In *Proceedings of ACM MOBIHOC*, pp. 49–60, Florence, Italy, May 2006. (acceptance rate 10%)
12. W.-C. Liao, F. Papadopoulos, and K. Psounis. An Efficient Algorithm for Resource Sharing in Peer-to-peer Networks, in *Proceedings of IFIP Networking*, pp. 592–605, Coimbra, Portugal, May 2006. (acceptance rate 20%)
13. K. Psounis, P. Molinero Fernandez, B. Prabhakar, and F. Papadopoulos. Systems with Multiple Servers under Heavy-tailed Workloads. In *Proceedings of the 24th International Symposium on Computer Performance, Modeling, Measurements and Evaluation (IFIP Performance)*, pp. 456–474, Juan-les-Pins, France, October 2005. (acceptance rate 22%)
14. A. Jindal and K. Psounis. Modeling Spatially-correlated Data of Sensor Networks with Irregular Topologies. In *Proceedings of IEEE SECON*, pp. 305–316, Santa Clara, California, USA, October 2005. (acceptance rate 27%)
15. K. Psounis, A. Ghosh, B. Prabhakar, and G. Wang. SIFT: a Simple Algorithm for Trucking Elephant Flows and Taking Advantage of Power Laws. In *Proceedings of the 43rd Allerton Conference on Communication, Control, and Computing*, 10 pages (no pp. avail.), Urbana-Champaign, Illinois, USA, September 2005.
16. T. Spyropoulos, K. Psounis, and C. Raghavendra. Spary and Wait: An Efficient Routing Scheme for Intermittently Connected Mobile Networks. In *Proceedings of ACM SIGCOMM workshop on Delay Tolerant Networking (WDTN)*, pp. 252–259 Philadelphia, Philadelphia, USA, August 2005. (acceptance rate 22%)
17. J. Faruque, K. Psounis, and A. Helmy. Analysis of Gradient-based Routing Protocols in Sensor Networks. In *Proceedings of IEEE/ACM DCOSS*, pp. 258–275, Marina Del Rey, California, USA, June 2005. (acceptance rate 28%)
18. F. Papadopoulos, K. Psounis, and R. Govindan. Performance-Preserving Network Downscaling. In *Proceedings of the 38th Annual Simulation Symposium (ANSS)*, pp. 285–294, San Diego, California, April 2005.
19. A. Jindal and K. Psounis. Modelling Spatially-correlated Sensor Network Data. In *Proceedings of IEEE SECON*, pp. 162–171, Santa Clara, California, USA, October 2004. (acceptance rate 19%)
20. T. Spyropoulos, K. Psounis, and C. Raghavendra. Single-copy Routing in Intermittently Connected Mobile Networks. In *Proceedings of IEEE SECON*, pp. 235–244, Santa Clara, California, USA, October 2004. (acceptance rate 19%)
21. R. Pan, B. Prabhakar, K. Psounis, and D. Wischik. SHRiNK: A Method for Scalable Performance Prediction and Efficient Network Simulation. In *Proceedings of IEEE INFOCOM*, Vol. 3, pp. 1943–1953, San Fransisco, California, USA, April 2003. (acceptance rate 21%)
22. K. Psounis, R. Pan, B. Prabhakar, and D. Wischik. The Scaling Hypothesis: Simplifying the Prediction of Network Performance Using Scaled-down Simulations. In *Proceedings of ACM HOTNETS*, pp. 35–40, Princeton, New Jersey, USA, October 2002.
23. R. Pan, B. Prabhakar, K. Psounis, and M. Sharma. A Study of the Applicability of a Scaling Hypothesis. In *Proceedings of ASCC*, 6 pages (no pp. avail.), Singapore, Singapore, September 2002.

24. K. Psounis. Class-based Delta Encoding: A Scalable Scheme for Caching Dynamic Web Content. In *Proceedings of IEEE ICDCS Workshops*, pp. 799 - 805, Vienna, Austria, July 2002.
25. K. Psounis and B. Prabhakar. A Randomized Web-cache Replacement Scheme. In *Proceedings of IEEE INFOCOM*, Vol. 3, pp. 1407–1415, Anchorage, Alaska, USA, April 2001. (acceptance rate 23%)
26. K. Psounis, R. Pan, and B. Prabhakar. An Approximate Fair Dropping Scheme for Variable Length Packets. In *Proceedings of Hot Interconnects 8*, pp. 2–10, Stanford, California, USA, August 2000.
27. K. Psounis, B. Prabhakar, and D. Engler. A Randomized Cache Replacement Scheme Approximating LRU. In *Proceedings of the 34th annual conference on Information Sciences and Systems*, 6 pages (no pp. avail.), Princeton, New Jersey, USA, March 2000.
28. R. Pan, B. Prabhakar, and K. Psounis. CHOKe, A Stateless Active Queue Management Scheme for Approximating Fair Bandwidth Allocation. In *Proceedings of IEEE INFOCOM*, Vol. 2, pp. 942–951, Tel Aviv, Israel, March 2000. (acceptance rate 26%)

#### INVITED CONFERENCE PAPERS

1. D. Antonellis, A. Mansy, K. Psounis, and M. Ammar. Real time, distributed network classification for routing protocol selection in mobile ad hoc networks. To appear in *Proceedings of the fourth international wireless Internet conference (WICON)*, Maui, Hawaii, November 2008.
2. Y. Wang, A. Ahmed, B. Krishnamachari, and K. Psounis. IEEE 802.11p performance evaluation and protocol enhancement. In *Proceedings of the IEEE International Conference on Vehicular Electronics and Safety*, 6 pages (no pp. avail.), Columbus, Ohio, USA, September 2008.
3. A. Jindal and K. Psounis. Achievable Rate Region and Optimality of Multi-hop Wireless 802.11-Scheduled Networks. In *Proceedings of the Information Theory and Applications Workshop (ITA)*, 7 pages (no pp. avail.), San Diego, California, USA, January 2008.
4. F. Papadopoulos and K. Psounis. Application of the many sources asymptotic in downscaling Internet-like networks. In *Proceedings of the Information Theory and Applications Workshop (ITA)*, pp. 314–322, San Diego, California, USA, January 2007.
5. A. Jindal and K. Psounis. Optimizing Multi-Copy Routing Schemes for Resource Constrained Intermittently Connected Mobile Networks. In *Proceedings of the Fortieth Asilomar Conference on Signals, Systems and Computers*, pp. 2142–2146, Pacific Grove, California, USA, October 2006.

#### Patents

- R. Pan, B. Prabhakar and K. Psounis. A Stateless Active Queue Management Scheme for Approximating Fair Bandwidth Allocation. US Patent No. 7,324,442, Stanford Office of Technology Licensing.
- K. Psounis and J. Jawahar. Method and System for Class-based Management of Dynamic Content in a Networked Environment. US Patent Pending, FineGround Networks, Inc., Cisco Systems, Inc.
- I. Husain, S. Agrawal and K. Psounis. Measurement Based Traffic Specification for Aggregate Class Traffic to Evaluate Resource Allocation and Performance. US Patent Pending, Cisco Systems, Inc.

## Selected Talks

- On the efficiency of random-access based multi-hop wireless networks: ETH, Zurich, Switzerland, February 2009.  
Politecnico di Torino, Italy, February 2009.
- On routing and transport challenges in multi-hop wireless networks: University of California, Riverside, April 2008.  
UIUC, February 2008.  
University of Michigan, Ann Arbor, February 2008.  
Ohio State, February 2008.  
University of Pennsylvania, January 2008.  
Rice University, December 2007.  
University of California, Santa Cruz, December 2007.  
Georgia Tech, November 2007.  
University of California, Berkeley, November 2007.  
Intel Research, Berkeley, November 2007.  
Boston University, October 2007.  
CALTECH, October 2007.  
Harvard University, October 2007.  
University of Massachusetts, Amherst, October 2007.  
MIT, October 2007.  
Penn State, October 2007.  
Columbia University, October 2007.  
Stanford University, California, June 2007.
- On mobility-assisted routing for intermittently connected mobile networks: University of California, San Diego, June 2007.  
University of California, Santa Barbara, June 2007.  
University of California, Los Angeles, June 2007.  
Politecnico di Torino, Italy, February 2006.  
Stanford University, California, November 2005.  
Center for Satellite and Hybrid Communication Networks , University of Maryland, Maryland, March 2005.
- On performance preserving network downscaling: IFIP WG 7.3 Performance Analysis, members meeting, Juan-les-Pins, France, October 2005.

## Professional Service

### INTERNATIONAL CONFERENCES

- Panel Chair, ACM MOBIHOC, 2009.
- Program Chair, ACM MOBICOM workshop on Challenged Networks (CHANTS), 2008.
- Workshop Chair, ACM SIGMETRICS 2008.
- Publication Chair, ACM SIGMETRICS 2007.
- Technical Program Committee, ACM MOBIHOC, 2009, 2008.
- Technical Program Committee, ACM MOBICOM, 2009.
- Technical Program Committee, IEEE INFOCOM 2010, 2009, 2008, 2007, 2006, 2005.
- Technical Program Committee, IEEE SECON 2009, 2008, 2007.
- Technical Program Committee, IEEE ICNP 2009.
- Technical Program Committee, ACM SIGMETRICS 2008.
- Technical Program Committee, IFIP NETWORKING 2008, 2007, 2006.
- Technical Program Committee, IEEE ICDCS workshop on Delay Tolerant Mobile Networks (DTMN), 2008.

- Technical Program Committee, IEEE WOWMOM workshop on Autonomic and Opportunistic Communications (AOC), 2009, 2008.
- Technical Program Committee, ACM MOBISYS workshop on Mobile Opportunistic Networks (MOBIOPP), 2007.
- Technical Program Committee, IEEE PERCOM workshop on Intermittently Connected Mobile Ad hoc Networks (ICMAN), 2007.
- Workshop Organizer, 1st USC Invited Workshop on Theory and Practice in Wireless Networks, 2008.
- Panel Organizer, IEEE CCW, 2008.
- Panel Member, ICST WICON 2008.
- Session Chair, 40th Asilomar Conference on Signals, Systems, and Computers 2006.
- Session Chair, IEEE/ACM DCOSS 2005.
- Session Chair, IEEE SECON 2004.

#### JOURNALS

- Editorial Board, IEEE Transactions on Mobile Computing (TMC), 2009.
- Editorial Board, International Journal of Autonomous and Adaptive Communications Systems (IJAACS), 2008.
- Reviewer of IEEE/ACM Transactions on Networking, IEEE Journal on Selected Areas in Communication, IEEE Transactions on Parallel and Distributed Systems, ACM Transactions on Mobile Computing, ACM Transactions on Sensor networks, Elsevier's Computer Networks Journal, Elsevier's Performance Evaluation Journal, Elsevier's Ad Hoc Networks Journal.

#### GOVERNMENTAL AGENCIES

- NSF Future Internet Architecture Summit, 2009.
- NSF CRI panel member, 2008.
- NSF NeTS-NOSS panel member, 2005.
- Participant, NSF Wireless mobile meeting-workshop, 2007.
- Participant, NSF NeTS project and program review meeting, 2005.

#### University Service

- Computer Engineering faculty recruitment committee.
- Computer Engineering oral exam committee.
- Computer Engineering Ph.D. curriculum committee.
- Computer Engineering Ph.D. screening exam reform committee.
- Course coordinator for EE465.
- Electrical Engineering networking curriculum committee for M.S. and Ph.D. degrees.
- Electrical Engineering undergraduate curriculum committee.
- Working group on the use of the Ming Hsieh endowment.

#### Professional Associations

- Technical Institution of Greece (TEE), member since August 1997.
- Institute of Electrical and Electronic Engineers (IEEE), Member from October 1998 to October 2008, Senior Member since November 2008.

- Association for Computing Machinery (ACM),  
Member from January 2001 to December 2008,  
Senior Member since January 2009.

**Languages**      English, French, Greek.

**Personal**        Married, two children.