

## CURRICULUM VITAE

- Education**
- STANFORD UNIVERSITY Stanford, CA  
*Ph.D. degree in Electrical Engineering* Jan. 1999 - Dec. 2002  
Thesis title: “Probabilistic Methods for Web Caching and Performance Prediction of IP Networks and Web Farms”, supervised by Prof. Balaji Prabhakar.
- STANFORD UNIVERSITY Stanford, CA  
*M.S. degree in Electrical Engineering* Sep. 1997 - Jan. 1999  
GPA: 4.0/4.0.
- NATIONAL TECHNICAL UNIVERSITY OF ATHENS Athens, Greece  
*Diploma in Electrical and Computer Engineering* Sep. 1992 - June 1997  
GPA: 9.74/10.0. (Graduated ranking 1st in the class of '97.)
- Work in Academia**
- UNIVERSITY OF SOUTHERN CALIFORNIA Los Angeles, CA  
Electrical and Computer Engineering (ECE) and (by courtesy) Computer Science dept.  
*Professor* Nov. 2017 - now  
*Associate Chair of ECE department* July 2021 - June 2024  
*Associate Chair of ECE department* Jan. 2019 - Aug 2019  
*Associate Professor* May. 2009 - Nov. 2017  
*Assistant Professor* Sep. 2003 - Apr. 2009  
Research interests: Modeling, performance analysis, algorithm design, and system design and implementation for efficient, AI-enabled and privacy-preserving networked, distributed systems, including the Internet and the web, data centers and cloud systems, wireless systems (e.g. WiFi, cellular, IoT, spectrum sharing, delay tolerant, mobile ad hoc), augmented and virtual reality systems, autonomous robotic/vehicle/drone systems, and peer to peer systems.
- STANFORD UNIVERSITY Stanford, CA  
*Visiting Associate Professor* Aug. 2009 - Dec. 2009
- STANFORD UNIVERSITY Stanford, CA  
*Postdoctoral Research Fellow* Jan. 2003 - Aug. 2003
- PhD Student Supervision**
- Dimitris Andreadis (Aug. 2024 - now)
  - Ryan Swift (Aug. 2024 - now)
  - Jike Zhong (Aug. 2024 - now)
  - Stavros Damianakis (Aug. 2024 - now)
  - Rohan Sequeira (Aug. 2023 - now)
  - Te Yi Kan (Jan. 2023 - now)
  - Tina Esmailzadeh (Aug. 2022 - now)
  - Namu Asavisanu (Aug. 2021 - now)
  - Jiang Zhang (Aug. 2019 - May 2024, currently at *Facebook*)
  - Lillian Clark (co-advised with Prof. Bhaskar Krishnamachari, Sep. 2018 - March 2023, currently at *SpaceX*)

- Hang Qiu (primary advisor Prof. Ramesh Govindan, Jan. 2015 - June 2021, currently *Assistant Professor at the University of California, Riverside*)
- Po-Han Huang (Sep. 2015 - Jan. 2020, currently at *Facebook*)
- Kaidong Wang (Sep. 2014 - Dec. 2019, currently at *Qualcomm*)
- Yonglong Zhang (Sep. 2013 - Dec. 2018, currently at *Facebook*)
- Matthew Clark (Sep. 2013 - Dec. 2017, currently at *Aerospace Corporation*)
- Weng Chon Ao (Sep. 2012 - Dec. 2017, currently at *Qualcomm*)
- Antonios Michaloliakos (Aug. 2010 - Sep. 2016, currently at *Enfabrica, California*)
- Ranjan Pal (co-advised with Prof. Leana Golubchik, Jan. 2009 - Aug. 2014, currently *Research Scientist at MIT*)
- Vlad Horia Balan (Sep. 2007 - Aug. 2013, currently at *Google*)
- Wei-Cherng Liao (Sep. 2004 - Dec. 2008, currently at *MediaTek, Taiwan*)
- Apoorva Jindal (Sep. 2003 - Dec. 2008, currently at *Uber*)
- Fragkiskos Papadopoulos (Sep. 2003 - Dec. 2007, currently *Associate Professor at Cyprus University of Technology, Cyprus*)
- Thrasyvoulos Spyropoulos (Sep. 2003 - Jun. 2006, currently *Professor at Technical University of Crete, Greece*)

<b>Proposals Funded</b>	AMAZON GRANT	Sep. 2023
	Proposal title: Private labelling and learning for voice assistants with cameras.	
	AMAZON GRANT	Sep. 2022
	Proposal title: Federated learning with secure aggregation: Accessing and improving its privacy.	
	CA-SANTA MONICA MOUNTAINS CONSERVANCY GRANT	Dec. 2021
	Proposal title: Wildfire Detection and Fighting Using a Network of Collaborative Drones.	
	NSF SATC GRANT	Oct. 2020 - Sep. 2025
	National Science foundation (NSF) award under the Secure and Trustworthy Computing (SaTC) call. Proposal title: SaTC: Frontiers: Collaborative: Protecting Personal Data Flow on the Internet.	
	NSF CNS GRANT	Oct. 2020 - Sep. 2023
	National Science foundation (NSF) award under the Computer and Networked Systems (CNS) call. Proposal title: CNS Core: Medium: Network-Enabled Cooperative Perception for Future Autonomous Vehicles.	
NSF NETS GRANT	Sep. 2019 - Aug. 2022	
National Science foundation (NSF) award under the Networking Technology and Systems (NeTS) call. Proposal Title: CNS Core: Medium: Collaborative Research: Privacy-Preserving Mobile Crowdsourcing.		
CISCO SYSTEMS GRANT	April 2019	
Proposal Title: Virtual and augmented reality over next generation WiFi.		
CISCO SYSTEMS GRANT	Dec 2016	
Proposal Title: Data-driven formal optimization of data centers.		

NSF NETS GRANT Sep. 2016 - Aug. 2020  
National Science foundation (NSF) award under the Networking Technology and Systems (NeTS) call.  
Proposal Title: Spectrum Sharing Systems for Wireless Networks: Performance and Privacy Challenges.

ADANT TECHNOLOGIES GRANT June 2016  
Proposal Title: Using reconfigurable antenna systems with WiFi communication devices.

HUAWEI GRANT May 2016  
Proposal Title: Addressing wireless bandwidth demand via asynchronously coordinated multi-cell deployments.

ADANT TECHNOLOGIES GRANT Dec. 2015  
Proposal Title: Asynchronous coordination of WiFi transmitters equipped with smart antennas for enhanced spectral efficiency.

NSF EARS GRANT Sep. 2014 - Aug. 2019  
National Science foundation (NSF) award under the Enhancing Access to the Radio Spectrum (EARS) crosscutting program.  
Proposal Title: Future Wireless Broadband Access: Cross-Optimizing Hardware, Physical and Network Layers.

CISCO SYSTEMS GRANT May 2014  
Proposal Title: Rateless encoded UDP for error-resilient wireless links.

ARMY RESEARCH LABORATORY (ARL) GRANT Sep. 2009 - Aug. 2014  
CTA: Communications and Networking Academic Research Center.  
Proposal Title: QUANTA: Quality of Information-Aware Networks for Tactical Applications.

DoCoMo LABS GRANT Sep. 2011 - 2013  
Proposal Title: MIMO systems with TDD

CISCO SYSTEMS GRANT Sep. 2011 - 2013  
Proposal Title: Efficient airtime allocation in wireless networks.

MING HSIEH INSTITUTE (MHI) GRANT May 2011 - 2013  
Proposal Title: Large-Scale Software-Radio Testbed.

METRANS TRANSPORTATION CENTER GRANT Aug. 2009 - Aug. 2010  
Proposal title: End-to-end performance in vehicular networks with an emphasis on safety and security applications.

CISCO SYSTEMS GRANT Sep. 2008  
Proposal Title: Neighborhood centric transport for home networking environments.

NSF NETS GRANT 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 Apr. 2008  
Proposal Title: TCP challenges in multi-hop wireless networks. From the networking workshop "The Future of TCP: Train-wreck or Evolution?".

VSoE INNOVATIVE RESEARCH FUND GRANT Dec. 2007 - Dec. 2008  
Proposal title: Establishing a New USC Invited Workshop on Theory and Practice in Wireless Networks.

METRANS TRANSPORTATION CENTER GRANT Oct. 2007 - Dec. 2008  
Proposal title: Efficient Routing for Safety Applications in Vehicular Networks.

NSF NETS GRANT 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 GRANT July 2005 - June 2006  
Proposal title: Routing in Intermittently Connected Mobile Networks.

CHARLES LEE POWELL SCHOLARSHIP GRANT Dec. 2003 - Dec. 2004

## Awards

ACM DISTINGUISHED MEMBER Nov. 2019  
The ACM Distinguished Member program recognizes up to 10 percent of ACM worldwide membership with at least 15 years of professional experience who have achieved significant accomplishments or have made a significant impact on the computing field.

IEEE FELLOW Jan. 2018  
The IEEE Grade of Fellow is conferred by the IEEE Board of Directors upon a person with an outstanding record of accomplishments in any of the IEEE fields of interest. The total number selected in any one year cannot exceed one-tenth of one-percent of the total voting membership. IEEE Fellow is the highest grade of membership and is recognized by the technical community as a prestigious honor and an important career achievement.

DISTINGUISHED MEMBER OF 2018 IEEE INFOCOM TPC AWARD 2018  
The IEEE Communications Society awards annually a select number of TPC members of its flagship conference IEEE Infocom with a Distinguished Member award.

DISTINGUISHED MEMBER OF 2016 IEEE INFOCOM TPC AWARD 2016  
The IEEE Communications Society awards annually a select number of TPC members of its flagship conference IEEE Infocom with a Distinguished Member award.

ACM NOTABLE ARTICLE IN COMPUTING - BEST OF 2013 2014  
Selection of paper "Modelling BitTorrent-like systems with many classes of users", W.-C. Liao, F. Papadopoulos, K. Psounis, and C. Psomas, ACM Transactions on Modelling and Computer Simulation, Vol. 23, Issue 2, Article No. 13, May 2013.

MEPC BUSINESS PLAN COMPETITION - 2ND PLACE 2013  
Presentation of SpaceMUX Inc., a USC spinoff startup specializing in advanced physical layer techniques applied to next generation wireless networks.

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.

FUTURE OF TCP BEST PRESENTATION AWARD Apr. 2008  
“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.

ZUMBERGE FACULTY RESEARCH AND INNOVATION AWARD July 2005  
The James H. Zumberge faculty research and innovation award is granted to a selected number of Professors at the University of Southern California.

CHARLES LEE POWELL SCHOLARSHIP AWARD Dec. 2003  
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 across all departments of 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.

## Publications

### ARXIV PREPRINTS

1. M Li, J Zhong, T Chen, Y Lai, K Psounis, “EEE-Bench: A Comprehensive Multi-modal Electrical And Electronics Engineering Benchmark”, *arXiv preprint arXiv:2411.01492*, November 2024.
2. J. Zhang, K. Psounis, S. Avestimehr, “Differentially Private Federated Learning without Noise Addition: When is it Possible?”, *arXiv preprint arXiv:2405.04551*, October 2024.

### CONFERENCE, PEER-REVIEWED, FULL-LENGTH PAPERS

1. J. Zhang, R. Sequeira, K. Psounis, “SpinML: Customized Synthetic Data Generation for Private Training of Specialized ML Models”, in *Proceedings of PETS*, accepted November 2024.
2. T. Khezresmaeilzadeh, E. Zhu, D. J. Dubois, K. Psounis, D. Choffnes, “Echoes of Privacy: Uncovering the Profiling Practices of Voice Assistants”, in *Proceedings of PETS*, accepted November 2024.
3. Jiang Zhang, Qiong Wu, Yiming Xu, Cheng Cao, Zheng Du, and Konstantinos Psounis, “Efficient Toxic Content Detection by Bootstrapping and Distilling Large Language Models”, in *Proceedings of AAAI*, 2024.
4. Y. Hu, X. Ye, Y. Liu, S. Kundu, G. Datta, S. Mutnuri, N. Asavisanu, N. Ayanian, K. Psounis, and P. Beerel, “FireFly A Synthetic Dataset for Ember Detection in Wild-fire”, in *Proceedings of the 5th Workshop on Artificial Intelligence for Humanitarian Assistance and Disaster Response*, at ICCV, 2023.

5. J. Zhang, H. Askari, K. Psounis, and Z. Shafiq, “No Video Left Behind: A Utility-Preserving Obfuscation Approach for YouTube Recommendations”, in *Proceedings of PETS*, 2023.
6. A. Elkordy, J. Zhang, Y. Ezzeldin, K. Psounis, and S. Avestimehr, “How Much Privacy Does Federated Learning with Secure Aggregation Guarantee?”, in *Proceedings of PETS*, 2023.
7. H. Qiu, P.-H. Huang, N. Asavisanu, X. Liu, K. Psounis, and R. Govindan, “Auto-Cast: Scalable Infrastructure-less Cooperative Perception for Distributed Collaborative Driving”, in *Proceedings of ACM MobiSys* 2022.
8. J. Zhang, K. Psounis, H. Muhammad, and Z. Shafiq, “HARPO: Learning to Subvert Online Behavioral Advertising”, in *Proceedings of NDSS*, 2022.
9. L. Clark, C. Andre, J. Galante, B. Krishnamachari, and K. Psounis, “TEAM: Trilateration for Exploration and Mapping with Robotic Networks”, in *Proceedings of the 18th International Conference on Ubiquitous Robots*, July 2021.
10. L. Clark, J. Galante, B. Krishnamachari, and K. Psounis, “A Queue-Stabilizing Framework for Networked Multi-Robot Exploration”, in *Proceedings of IEEE International Conference on Robotics and Automation (ICRA)*, May 2021.
11. P.-H. Huang and K. Psounis, “Efficient User-Cell Association for 360 Video Streaming over Wireless Networks”, in *Proceedings of IFIP Networking*, June 2020.
12. A. Petropulu, K. Psounis, and A. Al Hilli, “MIMO Radar Privacy Protection Through Gradient Enforcement in Shared Spectrum Scenarios”, in *Proceedings of IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN)*, Newark, NJ, November 2019.
13. E. Alimpertis, A. Markopoulou, C. T. Butts and K. Psounis, “City-Wide Signal Strength Maps: Prediction with Random Forests”, in *Proceedings of WWW*, San Francisco, CA, May 2019. (acceptance rate 15%)
14. A. Dimas, M. Clark, B. Li, K. Psounis and A. Petropulu, “On Radar Privacy in Shared Spectrum Scenarios”, in *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, Brighton, UK, May 2019.
15. K. Wang and K. Psounis. “Scheduling and Resource Allocation in 802.11ax”, in *Proceedings of IEEE Infocom*, Honolulu, HI, April 2018. (acceptance rate 19.2%)
16. M. Clark and K. Psounis. “Achievable Privacy-Performance Tradeoffs for Spectrum Sharing with a Sensing Infrastructure”, in *Proceedings of the 14th Annual Conference on Wireless On-Demand Network Systems and Services (IFIP WONS)*, 8 pages (no pp. avail.), Isola, France, February 2018.
17. Y. Zhang and K. Psounis. “Efficient MU-MIMO via Switched-beam Antennas”, in *Proceedings of ACM MOBIHOC*, 10 pages (no pp. avail.), Madras, India, July 2017. (acceptance rate 17%)
18. M. Clark and K. Psounis. “Designing Sensor Networks to Protect Primary Users in Spectrum Access Systems”, in *Proceedings of the 13th Annual Conference on Wireless On-Demand Network Systems and Services (IFIP/IEEE WONS)*, 8 pages (no pp. avail.), Jackson, WY, February 2017. (acceptance rate 30%)
19. P.-H. Huang and K. Psounis. “Efficient mmwave wireless backhauling for dense small-cell deployments”, in *Proceedings of the 13th Annual Conference on Wireless On-Demand Network Systems and Services (IFIP/IEEE WONS)*, 8 pages (no pp. avail.), Jackson, WY, February 2017. (acceptance rate 30%)
20. W. Chon Ao and K. Psounis. “An Efficient Approximation Algorithm for Online Multi-Tier Multi-Cell User Association”, in *Proceedings of ACM MOBIHOC*, 10 pages (no pp. avail.), Paderborn, Germany, July 2016. (acceptance rate 18.7%)

21. H. Qiu, K. Psounis, G. Caire, K. Chugg and K. Wang. “High-Rate WiFi Broadcasting in Crowded Scenarios via Lightweight Coordination of Multiple Access Points”, in *Proceedings of ACM MOBIHOC*, 10 pages (no pp. avail.), Paderborn, Germany, July 2016. (acceptance rate 18.7%)
22. M. Clark and K. Psounis. “Can the Privacy of Primary Networks in Shared Spectrum be Protected?”, in *Proceedings of IEEE INFOCOM*, 9 pages (no pp. avail.), San Francisco, April 2016. (acceptance rate 18.2%)
23. G. Zois, A. Michaloliakos, K. Psounis, V. Vassalos and I. Mourtos. “Non-asymptotic performance bounds for downlink MU-MIMO scheduling”, in *Proceedings of the 12th Annual Conference on Wireless On-Demand Network Systems and Services (IFIP WONS)*, 8 pages (no pp. avail.), Italy, January 2016. (acceptance rate 30%)
24. W. Chon Ao and K. Psounis. “Distributed Caching and Small Cell Cooperation for Fast Content Delivery”, in *Proceedings of ACM MOBIHOC*, pp. 127–136, Hangzhou, China, June 2015. (acceptance rate 14.8%)
25. M. Clark and K. Psounis. “Efficient Resource Scheduling for a Secondary Network in Shared Spectrum”, in *Proceedings of IEEE INFOCOM*, pp. 1257–1265, Hong Kong, April 2015. (acceptance rate 19.0%)
26. R. Pal, L. Golubchik, K. Psounis, and P. Hui. “Will Cyber-Insurance Improve Network Security? A Market Analysis”, in *Proceedings of IEEE INFOCOM*, pp. 235–243, Toronto, Canada, April 2014. (acceptance rate 19.4%)
27. E. N. Ciftcioglu, A. Michaloliakos, K. Psounis, T. La Porta, and A. Yener. “Power Minimization with Quality-of-Information Outages”, in *Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC)*, pp. 1655–1660, Istanbul, Turkey, April 2014.
28. R. Pal, L. Golubchik, K. Psounis, and P. Hui. “On A Way to Improve Cyber-Insurer Profits: When A Security Vendor Becomes the Cyber-Insurer”, in *Proceedings of IFIP NETWORKING*, 9 pages (no pp. avail.), New York, May 2013. (acceptance rate 26.2%)
29. H. V. Balan, M. Segura, S. Deora, A. Michaloliakos, R. Rogalin, K. Psounis and G. Caire. “USC SDR, an easy-to-program, high data rate, real time software radio platform”, in *Proceedings of the ACM SIGCOMM workshop of Software Radio Implementation Forum (SRIF 2013)*, pp. 25–30, Hong Kong, China, August 2013.
30. A. Michaloliakos, R. Rogalin, H. V. Balan, K. Psounis and G. Caire. “Efficient MAC for distributed multiuser MIMO systems”, in *Proceedings of the 10th Annual Conference on Wireless On-Demand Network Systems and Services (IFIP/IEEE WONS)*, pp. 52–59, Alberta, March 2013.
31. H. V. Balan, R. Rogalin, A. Michaloliakos, K. Psounis and G. Caire, “Achieving High Data Rates in a Distributed MIMO System”, in *Proceedings of ACM MOBICOM*, pp. 41–52, Istanbul, Turkey, August 2012. (acceptance rate 15.1%)
32. M. Mongioli, A. Singh, X. Yan, B. Zong, and K. Psounis, “Efficient multicasting for delay tolerant networks using graph indexing”, in *Proceedings of IEEE INFOCOM*, pp. 1386–1394, Orlando, Florida, March 2012. (acceptance rate 18.0%)
33. R. Pal, L. Golubchik, and K. Psounis. “Aegis: A Novel Cyber-Insurance Model”, in *Proceedings of the 2nd Conference on Decision and Game Theory for Security (GameSec 2011)*, pp. 131–150, College Park, Maryland, November 2011.
34. E. N. Ciftcioglu, A. Yener, R. Govindan, and K. Psounis. “Operational Information Content Sum Capacity: Formulation and Examples”, in *Proceedings of the 14th International Conference on Information Fusion (FUSION)*, pp. 1–7, Chicago, July 2011.

35. K.-Y. Jang, K. Psounis, and R. Govindan. “Simple Yet Efficient, Transparent Airtime Allocation for TCP in Wireless Mesh Networks”, in *Proceedings of ACM CoNEXT*, article no. 28, 12 pages, Philadelphia, December 2010. (acceptance rate 19%)
36. A. Jindal and K. Psounis. “Making the Case for Random Access Scheduling in Wireless Multi-hop Networks”, in *Proceedings of IEEE INFOCOM*, (mini-conference), pp. 1–5, San Diego, California, March 2010. (acceptance rate 24%)
37. 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%)
38. 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.
39. 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%)
40. 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%)
41. 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.
42. 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.
43. 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.
44. 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.
45. 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%)
46. 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%)
47. 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%)
48. A. Jindal and K. Psounis. “Performance Analysis of Epidemic Routing under Contention”, in *Proceedings of IWCMC*, pp. 539–544, Vancouver, Canada, July 2006.
49. 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%)

50. 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%)
51. 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%)
52. 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%)
53. 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.
54. 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.
55. 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%)
56. 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%)
57. 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%)
58. 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.
59. 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.
60. 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.
61. 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%)
62. 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%)
63. 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.

64. 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.

#### REFEREED JOURNALS

1. E. Bakopoulou, M. Yang, J. Zhang, K. Psounis and A. Markopoulou. “Location Leakage in Federated Signal Maps”, *IEEE Transactions on Mobile Computing*, October 2023.
2. R. Pal, N. Sastry, E. Obiodu, S. Prabhu, K. Psounis. “EdgeMart: A Sustainable Networked OTT Economy on the Wireless Edge for Saving Multimedia IP Bandwidth”, *ACM Transactions on Autonomous and Adaptive Systems*, July 2023, DOI: 10.1145/3605552.
3. E. Alimpertis, A. Markopoulou, C. Butts, E. Bakopoulou, K. Psounis. “A Unified Prediction Framework for Signal Maps: Not All Measurements are Created Equal”, *IEEE Transactions on Mobile Computing*, October 2022, DOI: 10.1109/TMC.2022.3221773.
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#### BOOK CHAPTERS

1. K. Psounis and M. Clark. Privacy in Spectrum Sharing Systems with Applications to Communications and Radar, In *Signal Processing for Joint Radar-Communications*, Wiley-IEEE Press, 2021.

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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.

#### INVITED CONFERENCE PAPERS

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10. 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.

### Citations

- Total citations: 14776
- h-index: 41  
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### Teaching experience

- Co-creator and instructor for the USC graduate class EE597: “Wireless Networks”. Content: Introduction to current and next generation wireless networking technologies, detailed exploration of fundamental architectural and design principles used at all layers.
- Instructor for the USC graduate class EE503: “Probability for Electrical and Computer Engineering”. Content: Probability, discrete and continuous time Markov chains, basic queueing theory.
- Instructor for the USC undergrad class EE465: “Probabilistic Methods in Computer Systems Modelling”. Content: Probability, Markov chains, simulations.
- Creator and instructor for the USC graduate class EE650: “Advance Topics in Computer Networks: Mathematical tools for analyzing wired and wireless networks”. Content: Applications to networking problems of probability, queueing, Lyapunov functions, fluid limits, bipartite matchings, stable marriages, random walks on graphs, deterministic and stochastic optimization, statistical analysis, information theory, game theory.

### Issued Patents

- G. Caire, K. Psounis. Composite beamforming to coordinate concurrent WLAN links. Quantenna Communications, Inc.  
*US Patent No. 9,479,240*, issued Oct. 2016.
- K. Psounis, G. Caire, H. V. Balan. AirSync: enabling distributed multiuser MIMO with full multiplexing gain. USC.  
*US Patent No. 61,651,964*, issued Jan. 2015.
- K. Psounis and J. Jawahar. Method and System for Class-based Management of Dynamic Content in a Networked Environment. Cisco Systems, Inc.  
*US Patent No. 7,802,014*, issued Sep. 2010.
- R. Pan, B. Prabhakar and K. Psounis. A Stateless Active Queue Management Scheme for Approximating Fair Bandwidth Allocation. Stanford.  
*US Patent No. 7,324,442*, issued Jan. 2008.

### Selected Professional Service

INTERNATIONAL CONFERENCES - ORGANIZING/EXECUTIVE COMMITTEE

- Steering Committee, IFIP/IEEE WONS, 2017 - now.
- General Chair, ACM SIGMETRICS, 2018.
- General Chair, IFIP/IEEE WONS, 2017.
- Program Chair, IFIP/IEEE WONS, 2016.
- Program Chair, IEEE DCOSS workshop on Wireless Sensor Networks (PWSN), 2014.
- Program Chair, ACM MOBICOM workshop on Challenged Networks (CHANTS), 2008.

- Workshop Chair, ACM SIGMETRICS 2008.
- Workshop Chair, USC Workshop on Theory and Practice in Wireless Networks, 2008.
- Publication Chair, ACM SIGMETRICS 2007.
- Panel Chair, ACM MOBIHOC, 2009.
- Panel Chair, IEEE CCW, 2008.

#### INTERNATIONAL CONFERENCES - TECHNICAL PROGRAM COMMITTEE

- IFIP/IEEE WONS 2013 - 2014, 2018, 2022
- IEEE INFOCOM 2005 - 2020.
- ACM SIGMETRICS 2008, 2014, 2015, 2017, 2020.
- ACM MOBIHOC, 2008 - 2010, 2017-2020.
- WiOpt 2016-2017.
- IEEE SECON 2007 - 2010.
- IFIP NETWORKING 2006 - 2010.
- ACM MOBICOM, 2009.
- IEEE ICNP 2009.
- IEEE WOWMOM workshop on Autonomic and Opportunistic Communications (AOC), 2008 -2009.
- IEEE ICDCS workshop on Delay Tolerant Mobile Networks (DTMN), 2008.
- ACM MOBISYS workshop on Mobile Opportunistic Networks (MOBIOPP), 2007.
- IEEE PERCOM workshop on Intermittently Connected Mobile Ad hoc Networks (IC-MAN), 2007.

#### JOURNALS

- Editorial Board, IEEE/ACM Transactions on Networking (ToN), 2015 - 2020.
- Editorial Board, IEEE Transactions on Mobile Computing (TMC), 2009 - 2019.
- Editorial Board, Computer Networks Journal, Elsevier, 2009 - 2010.
- 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, IEEE Transactions on Mobile Computing, ACM Transactions on Sensor networks, Elsevier Computer Networks Journal, Elsevier Performance Evaluation Journal, Elsevier Ad Hoc Networks Journal, Transportation Research Journal Part C, IEEE Transactions on Automatic Control.

#### GOVERNMENTAL AGENCIES

- NSF ML panel, 2020.
- NSF CAREER panel, 2019.
- NSF EARS meeting, 2016.
- NSF Future Internet Architecture Summit participant, 2009.
- NSF CRI panel member, 2008.
- NSF Wireless mobile workshop participant, 2007.

- NSF NeTS-NOSS panel member, 2005.
- Reviewer of NSF NeTS proposals.

**Professional Associations**

- Institute of Electrical and Electronic Engineers (IEEE):  
IEEE Fellow, 2018 - now.  
Senior Member, 2008 - 2017.  
Member, 1998 - 2008.
- Association for Computing Machinery (ACM):  
ACM Distinguished Member, 2019 - now.  
Senior Member, 2009 - 2018.  
Member, 2001 - 2008.
- Technical Institution of Greece (TEE), 1997 - now.

**Technical Work in Industry**

ADANT TECHNOLOGIES  
*Technical Consultant* Jan. 2017 - May 2018  
WiFi 802.11ax and smart antennas.

QUANTENNA COMMUNICATIONS  
*Technical Consultant* Jan. 2015 - 2016  
Advanced MAC and PHY layer techniques applied to next generation wireless networks.

HONEYWELL  
*Technical Consultant* Sep. 2013 - Jun. 2014  
Sensor-network based fire alarm systems.

SPACEMUX, INC.  
*Co-founder and CEO* May 2013 - Dec. 2014  
Increasing wireless bandwidth and speed tenfold.

CISCO SYSTEMS San Jose, CA  
*Technical Consultant* Sep. 2009 - Dec. 2009  
Vehicular multi-technology wireless connectivity.

FINEGROUND NETWORKS INC. Cambell, CA  
*Technology Architect* Sep. 2000 - June 2001  
Accelerating web downloads using delta encoding.

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