

CURRICULUM VITAE

Education	<p>STANFORD UNIVERSITY Stanford, CA <i>Department of Electrical Engineering</i> Jan. 1999 - Dec. 2002 Ph.D. degree in Electrical Engineering. 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 Stanford, CA <i>Department of Electrical Engineering</i> Sep. 1997 - Jan. 1999 M.S. degree in Electrical Engineering. GPA: 4.0/4.0. (Actual GPA 4.05/4.0.)</p> <p>NATIONAL TECHNICAL UNIVERSITY OF ATHENS Athens, Greece <i>Electrical and Computer Engineering Department</i> Sep. 1992 - June 1997 Diploma in Electrical and Computer Engineering. GPA: 9.74/10.0. (Graduated ranking 1st in the class of '97.)</p>
Work/ Research Experience	<p>UNIVERSITY OF SOUTHERN CALIFORNIA Los Angeles, CA <i>Professor</i> Nov. 2017 - now <i>Associate Chair of ECE department</i> Jan. 2019 - Aug 2019 <i>Associate Professor</i> May. 2009 - Nov. 2017 <i>Assistant Professor</i> Sep. 2003 - Apr. 2009 <i>Electrical and Computer Engineering (ECE) and (jointly) Computer Science departments</i> Research interests: Modelling, performance analysis, and design and implementation of schemes and protocols for a variety of networked systems, including WiFi and cellular systems, spectrum sharing systems, the Internet and the web, data centers, peer to peer systems, sensor and IoT systems, mobile ad hoc and delay tolerant networks, and autonomous vehicles systems.</p> <p>ADANT TECHNOLOGIES <i>Consultant</i> Jan. 2017 - May 2018 WiFi 802.11ax and smart antennas.</p> <p>QUANTENNA COMMUNICATIONS <i>Consultant</i> Jan. 2015 - 2016 Advanced MAC and PHY layer techniques applied to next generation wireless networks.</p> <p>HONEYWELL <i>Consultant</i> Sep. 2013 - Jun. 2014 Sensor-network based fire alarm systems.</p> <p>SPACEMUX, INC. <i>Co-founder and CEO</i> May 2013 - Dec. 2014 Increasing wireless bandwidth and speed tenfold.</p> <p>CISCO SYSTEMS San Jose, CA <i>Consultant</i> Sep. 2009 - Dec. 2009 Vehicular multi-technology wireless connectivity.</p> <p>STANFORD UNIVERSITY Stanford, CA <i>Visiting Associate Professor</i> Aug. 2009 - Dec. 2009 <i>Electrical Engineering department.</i></p>

CISCO SYSTEMS San Jose, CA
Summer Intern at ATM Platforms Group June 1999 - Aug. 1999
Switch scheduling with QoS guarantees.

STANFORD UNIVERSITY Stanford, CA
Postdoctoral Research Fellow Jan. 2003 - Aug. 2003
Scheduling of Internet flows and multi-server systems.

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

Teaching Experience UNIVERSITY OF SOUTHERN CALIFORNIA Los Angeles, CA
Instructor Sep. 2003 - now

- Co-creator and Instructor for the class EE597: “Wireless Networks”. Content: This course provides an introduction to various current and next generation wireless networking technologies, and undertakes a detailed exploration of fundamental architectural and design principles used at all layers.
- Instructor for the class EE503: “Probability for Electrical and Computer Engineering”. Content: Probability, discrete and continuous time Markov chains, basic queueing theory.
- Instructor for the class EE465: “Probabilistic Methods in Computer Systems Modelling”. Content: Probability, discrete and continuous time Markov chains, queueing theory, simulations.
- Creator and Instructor for the class EE650: “Advance Topics in Computer Networks: Mathematical tools for analyzing wired and wireless networks”. Content: Brief introductions to and applications to networking problems 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, information theory, game theory.

PhD Student Supervision

- Jiang Zhang (Aug. 2019 - now)
- Lillian Clark (co-advised with Prof. Bhaskar Krisnamachari, Sep. 2018 - now)
- Po-Han Huang (Sep. 2015 - now, PhD Oral exam Fall 2019)
- Kaidong Wang (Sep. 2014 - now, PhD Defense exam Fall 2019)
- Yonglong Zhang (Sep. 2013 - Dec. 2018, currently at Facebook, California)
- Matthew Clark (Sep. 2013 - Dec. 2017, currently at Aerospace Corporation, California)
- Weng Chon Ao (Sep. 2012 - Dec. 2017, currently at Qualcomm, California)
- Antonios Michaloliakos (Aug. 2010 - Sep. 2016, currently at Broadcom, California)
- Ranjan Pal (co-advised with Prof. Leana Golubchik, Jan. 2009 - Aug. 2014, currently Assistant Research Professor at the University of Michigan, Ann Arbor)
- Vlad Horia Balan (Sep. 2007 - Aug. 2013, currently at Google, California)
- Wei-Cherng Liao (Sep. 2004 - Dec. 2008, currently at MediaTek, Taiwan)
- Apoorva Jindal (Sep. 2003 - Dec. 2008, currently at Uber, California)
- Fragkiskos Papadopoulos (Sep. 2003 - Dec. 2007, currently Assistant Professor at Cyprus University of Technology, Cyprus)
- Thrasyvoulos Spyropoulos (Sep. 2003 - Jun. 2006, currently Associate Professor at Eurecom, France)

**Proposals
Funded**

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
Research grant from the Cisco University Research Program.
Proposal Title: Virtual and augmented reality over next generation WiFi.

CISCO SYSTEMS GRANT Dec 2016
Research grant from the Cisco University Research Program.
Proposal Title: Data-driven formal optimization of data centers.

NSF NETS GRANT Sep. 2016 - Aug. 2019
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
Research grant from Adant Technologies.
Proposal Title: Using reconfigurable antenna systems with WiFi communication devices.

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

ADANT TECHNOLOGIES GRANT Dec. 2015
Research grant from Adant Technologies.
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
Research grant from the Cisco University Research Program.
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
Research support from the DoCoMo Labs, US.
Proposal Title: MIMO systems with TDD

CISCO SYSTEMS GRANT Sep. 2011 - 2013
Research grant from the Cisco University Research Program.
Proposal Title: Efficient airtime allocation in wireless networks.

MING HSIEH INSTITUTE (MHI) GRANT May 2011 - 2013
MHI grant to build a large scale software radio testbed and implement distributed MIMO, interference alignment and massive MIMO systems, as well as perform channel sounding and modelling.

Proposal Title: Large-Scale Software-Radio Testbed.

METRANS TRANSPORTATION CENTER GRANT 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.

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 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

Research grant from the Cisco University Research Program.

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

NSF REU SITE GRANT 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 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 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

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 GRANT Dec. 2003 - Dec. 2004

The Charles Lee Powell grant is granted to a selected number of Assistant Professors at the University of Southern California.

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 REFEREED JOURNALS

1. M. Clark and K. Psounis. "Optimizing Primary User Privacy in Spectrum Sharing Systems", *IEEE/ACM Transactions on Networking*, December 2019.
2. R. Pal, L. Golubchik, K. Psounis and T. Bandyopadhyay. "On Robust Estimates of Correlated Risk in Cyber-Insured IT Firms: A First Look at Optimal AI-Based Estimates under Small Data", *ACM Transactions on Management Information Systems*, October 2019.
3. W. Chon Ao and K. Psounis. "Resource-constrained Replication Strategies for Hierarchical and Heterogeneous Tasks" *IEEE Transactions on Parallel and Distributed Systems*, September 2019.
4. Y. Zhang and K. Psounis. "Efficient Indoor Localization via Switched-beam Antennas", *IEEE Transactions on Mobile Computing*, June 2019.
5. P. Huang and K. Psounis, "Optimal Backhauling for Dense Small-Cell Deployments Using mmWave Links", *Computer Communications Journal, Elsevier*, Vol: 139, April 2019.
6. R. Pal, L. Golubchik, K. Psounis, and P. Hui, "Security Pricing as Enabler of Cyber-Insurance: A First Look at Differentiated Pricing Markets", *IEEE Transactions on Dependable and Secure Computing*, Vol. 16, Issue 2, March-April 2019.
7. W. Chon Ao and K. Psounis. "Data-locality-aware User Grouping in Cloud Radio Access Networks", *IEEE Transactions on Wireless Communications*, Vol: 17, Issue: 11, Nov. 2018.
8. Y. Zhang and K. Psounis. "Consistently High MIMO Rates via Switched-beam Antennas", *IEEE/ACM Transactions on Networking*, Vol: 26, Issue: 5, Oct. 2018.
9. W. Chon Ao and K. Psounis. "Fast Content Delivery via Distributed Caching and Small Cell Cooperation", *IEEE Transactions on Mobile Computing*, Vol: 17, Issue: 5, May 2018.
10. R. Pal, L. Golubchik, K. Psounis, "Improving Cyber-Security via Profitable Insurance Markets", *ACM SIGMETRICS Performance Evaluation Review*, Vol: 45, Issue 4, Mar. 2018.
11. M. Clark and K. Psounis. "Trading Utility for Privacy in Shared Spectrum Access Systems", *IEEE/ACM Transactions on Networking*, Vol. 26, Issue 1, February 2018.
12. A. Michaloliakos, W. C. Ao, K. Psounis and Y. Zhang. "Asynchronously Coordinated Multi-timescale beamforming architecture for multi-cell networks", *IEEE/ACM Transactions on Networking*, Vol. 26, Issue 1, February 2018.
13. W. Chon Ao and K. Psounis. "Approximation Algorithms for Online User Association in Multi-Tier Multi-Cell Mobile Networks", *IEEE/ACM Transactions on Networking*, Vol: 25, Issue: 4, August 2017.
14. M. Clark and K. Psounis. "Equal Interference Power Allocation for Efficient Shared Spectrum Resource Scheduling", *IEEE Transactions on Wireless Communications*, Vol: 16, Issue 1, January 2017.

15. A. Michaloliakos, R. Rogalin, Y. Zhang, K. Psounis and G. Caire. "Performance Modeling of Next-Generation WiFi Networks", *Computer Networks Journal*, Vol. 105, pp.150-165, August 2016.
16. R. Rogalin, O. Y. Bursalioglu, H. Papadopoulos, G. Caire, A. Molisch, A. Michaloliakos, V. Balan, and K. Psounis. "Scalable Synchronization and Reciprocity Calibration for Distributed Multiuser MIMO", *IEEE Transactions on Wireless Communications*, Vol. 13, Issue 4, pp. 1815 - 1831, April 2014.
17. H. V. Balan, R. Rogalin, A. Michaloliakos, K. Psounis and G. Caire. "AirSync: Enabling Distributed Multiuser MIMO with Full Spatial Multiplexing", *IEEE/ACM Transactions on Networking*, Vol. 21, Issue 6, pp. 1681 - 1695, December 2013.
18. A. Jindal and K. Psounis. "On the Efficiency of CSMA-CA Scheduling in Wireless Multihop Networks", *IEEE/ACM Transactions on Networking*, Vol. 21, Issue 5, pp. 1392 - 1406, October 2013.
19. W.-C. Liao, F. Papadopoulos, K. Psounis, and C. Psomas. "Modelling BitTorrent-like systems with many classes of users", *ACM Transactions on Modelling and Computer Simulation*, Vol. 23, Issue 2, Article No. 13, May 2013.
20. A. Jindal, K. Psounis, and M. Liu, "CapEst: A Measurement-based Approach to Estimating Link Capacity in Wireless Networks", *IEEE Transactions on Mobile Computing*, Vol. 11, Iss. 12, pp. 2098-2108, May 2012.
21. S. Rangwala, A. Jindal, K.-Y. Jang, K. Psounis, and R. Govindan. "Neighborhood-centric congestion control for multi-hop wireless mesh networks", *IEEE/ACM Transactions on Networking*, Vol. 19, No. 6, pp. 1797-1810, December 2011.
22. W.-J. Hsu, T. Spyropoulos, K. Psounis and A. Helmy. "Modelling Spatial and Temporal Dependencies of User Mobility in Wireless Mobile Networks", *IEEE/ACM Transactions on Networking*, Vol. 17, Iss. 5, pp. 1564-1577, October 2009.
23. A. Jindal and K. Psounis. "The Achievable Rate Region of 802.11-Scheduled Multihop Networks", *IEEE/ACM Transactions on Networking*, Vol. 17, Iss. 4, pp. 1118-1131, August 2009.
24. 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.
25. 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, Iss. 1, pp. 77-90, February 2008.
26. 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, Iss. 1, pp. 63-76, February 2008.
27. 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.
28. W.-C. Liao, F. Papadopoulos and K. Psounis. "Performance Analysis of BitTorrent-like Systems with Heterogeneous Users", *Performance Evaluation Journal*, Vol. 64, Issues 9-12, pp. 876-891, October 2007.
29. 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.
30. 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.

31. 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.
32. 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.
33. 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.
34. K. Psounis, P. Molinero Fernandez, B. Prabhakar, and F. Papadopoulos. “Systems with Multiple Servers under Heavy-tailed Workloads”, *Performance Evaluation Journal*, Vol. 62, Issue 1–4, pp. 456–474, October 2005.
35. R. Pan, K. Psounis, B. Prabhakar, and D. Wischik. “SHRiNK: A Method for Enabling Scalable Performance Prediction and Efficient Network Simulation”, *IEEE/ACM Transactions on Networking*, Vol. 13, No. 5, pp. 975–988, October 2005.
36. 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.
37. K. Psounis, A. Zhu, B. Prabhakar, and R. Motwani. “Modelling Correlations in Web-Traces and Implications for Designing Replacement Policies”, *Computer Networks Journal*, Vol. 45, No. 4, pp. 379–398, July 2004.
38. 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.
39. 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.
40. 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.
41. K. Psounis. “Active Networks, Applications, Security, Safety, and Architectures”, *IEEE Communications Surveys Magazine*, Vol. 2, No. 1, pp. 1–16, 1st quarter 1999.

CONFERENCE, PEER-REVIEWED, FULL-LENGTH PAPERS

1. 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.
2. 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%)
3. 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.
4. 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%)

5. 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.
6. 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%)
7. 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%)
8. 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%)
9. 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%)
10. 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%)
11. 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%)
12. 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%)
13. 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%)
14. 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%)
15. 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%)
16. 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.
17. 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%)
18. 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.

19. 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.
20. 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%)
21. 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%)
22. 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.
23. 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.
24. 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%)
25. 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%)
26. 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 Francisco, California, September 2008. (acceptance rate 12%)
27. 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.
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1. L. Clark, M. Clark, K. Psounis and P. Kairouz. “Privacy-utility trades in wireless data via optimization and learning”, in *Proceedings of the Information Theory and Applications Workshop (ITA)*, 10 pages (no pp. avail.), San Diego, California, USA, February 2019.
2. A. Dimas, B. Li, M. Clark, K. Psounis, A. Petropulu. “Spectrum Sharing Between Radar and Communication systems: Can the Privacy of the Radar be Preserved?”, in *Proceedings of the Asilomar Conference on Signals, Systems and Computers*, Pacific Grove, California, USA, October 2017.
3. A. Michaloliakos, W. Chon Ao and K. Psounis. “Joint user-beam selection for hybrid beamforming in asynchronously coordinated multi-cell networks”, in *Proceedings of the Information Theory and Applications Workshop (ITA)*, 10 pages (no pp. avail.), San Diego, California, USA, February 2016.
4. Y. Zhang, D. Bethanabhotla, T. Hao and K. Psounis. “Near-optimal user-cell association schemes for real-world networks”, in *Proceedings of the Information Theory and Applications Workshop (ITA)*, 10 pages (no pp. avail.), San Diego, California, USA, February 2015.
5. A. Jindal, K. Psounis, and M. Liu. “CapEst: Estimating wireless link capacity in multi-hop networks”, in *Proceedings of the Information Theory and Applications Workshop (ITA)*, 6 pages (no pp. avail.), San Diego, California, USA, February 2011.
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7. 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*, pp. 317–322, Columbus, Ohio, USA, September 2008.
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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.

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- 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

- IEEE INFOCOM 2005 - 2020.
- ACM SIGMETRICS 2008, 2014, 2015, 2017, 2020.
- ACM MOBIHOC, 2008 - 2010, 2017-2020.
- WiOpt 2016-2017.
- IFIP/IEEE WONS 2013 - 2014, 2018.
- 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 - now.
- 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 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.

Languages English, Greek, French.

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