

Stanford



Nicholas Bambos

Richard W. Weiland Professor in the School of Engineering and Professor of Electrical Engineering
Management Science and Engineering

CONTACT INFORMATION

- **Administrator**

Matt Gonzales - Administrative Associate

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Bio

BIO

Nick Bambos is R. Weiland Professor in the School of Engineering at Stanford University, having a joint appointment in the Department of Electrical Engineering and the Department of Management Science & Engineering. He has been the Fortinet Founders Department Chair of the Management Science & Engineering Department (2016 – 20).

He heads the Computer Systems Performance Engineering Lab (Perf-Lab) at Stanford, comprised of doctoral students and industry visitors engaged in various research projects, and was the Director (1999 – 2005) of the Stanford Networking Research Center (a research project of about \$30M). He has published over 300 peer-reviewed research publications and graduated over 40 doctoral students (including two post-doctoral ones), who have moved on to leadership positions in academia, the Silicon Valley industries and technology startups, finance and venture capital, etc.

His research interests are in architecture and high-performance engineering of computer systems and networks, as well as data analytics with an emphasis on medical and health-care analytics. His research contributions span the areas of networking and the Internet, cloud computing and data centers, multimedia streaming, computer security, digital health, etc. His methodological interests and contributions span the areas of network control, online task scheduling, routing and distributed processing, machine learning and artificial intelligence, etc.

He received his Ph.D. (1989) in Electrical Engineering & Computer Sciences from the University of California at Berkeley. Before joining Stanford in 1996, he served as assistant professor (1989 – 95) and tenured associate professor (1995 – 96) of Electrical Engineering at the University of California at Los Angeles (UCLA).

He has received several best research paper awards and has been the Cisco Systems Faculty Development Chair and the David Morgenthaler Faculty Scholar at Stanford. He has won the IBM Faculty Award, as well as the National Young Investigator Award and the Research Initiation Award from the National Science Foundation. He has been a Berkeley U.C. Regents Fellow, an E. C. Anthony Fellow, and a D. & S. Gale Fellow.

He has served on various editorial boards of research journals, scientific boards of research labs, international technical and scientific committees, and technical review panels for networking and computing technologies. He has also served on corporate technical boards, as consultant and co-founder of technology start-up companies, and as expert witness in high-profile patent litigation and other legal cases involving information technologies.

ACADEMIC APPOINTMENTS

- Professor, Management Science and Engineering
- Professor, Electrical Engineering
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Fortinet Founders Department Chair, Dept. of Management Science and Engineering, (2016-2020)
- Director, Stanford Networking Research Center, (1999-2005)

HONORS AND AWARDS

- R. Weiland Professorship in Engineering, Stanford University (2016 - present)
- Eugene L. Grant Teaching Award, Stanford University (2014)
- IBM Faculty Award, IBM Labs (2002)
- Cisco Systems Faculty Scholar, Stanford University (1999 - 2003)
- Dana Adams Griffin Award, Stanford University (1997)
- David Morgenthaler Faculty Scholar, Stanford University (1996 - 1999)
- National Young Investigator Award, National Science Foundation (1992 - 1997)
- Research Initiation Award, National Science Foundation (1990 - 1992)
- University of California Regents Fellow, University of California at Berkeley (1986 - 1988)
- Earl C. Anthony Fellow, University of California at Berkeley (1985 - 1986)
- David and Sylvia Gale Fellow, University of California at Berkeley (1984 - 1985)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Scientific Board, German-Turkish Center in Information and Communication Technologies, Berlin, Germany (2017 - 2020)
- Scientific Board, Laboratory on Information, Networking and Communication Sciences, Paris, France (2010 - present)
- Steering Board, Conference on Decision and Game Theory for Security - GameSec (2010 - 2017)
- Editorial Board, Wireless Networks Journal (2001 - 2007)
- Editorial Board, Computer Networks Journal (2000 - 2002)
- Editorial Board, Queueing Systems Journal (1999 - 2007)

PROFESSIONAL EDUCATION

- PhD, University of California at Berkeley , Electrical Engineering & Computer Sciences (1989)
- MA, University of California at Berkeley , Mathematics (1989)
- MS, University of California at Berkeley , Electrical Engineering & Computer Sciences (1987)
- Diploma, National Technical University of Athens - Greece , Electrical Engineering (1984)

Teaching

COURSES

2023-24

- Fundamental Concepts in Management Science and Engineering: MS&E 302 (Aut)
- Information Networks and Services: MS&E 130 (Win)

- Performance Engineering of Computer Systems & Networks: EE 384S (Spr)
- Queueing and Scheduling in Processing Networks: MS&E 335 (Aut)

2022-23

- Information Networks and Services: MS&E 130 (Win)
- Performance Engineering of Computer Systems & Networks: EE 384S (Spr)
- Queueing and Scheduling in Processing Networks: MS&E 335 (Aut)

2020-21

- Performance Engineering of Computer Systems & Networks: EE 384S (Spr)
- Queueing and Scheduling in Processing Networks: MS&E 335 (Aut)
- Security and Risk in Computer Networks: MS&E 332 (Win)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Yanlin Qu, Shengbo Wang

Doctoral Dissertation Advisor (AC)

Siddharth Chandak, Kyriakos Lotidis, Isha Thapa

Master's Program Advisor

Sovann Linden, Devin Ma, Stephanie Szpylka, Ishita Sanjay Tambat, Frank Wu, Yasu Yoshida

Doctoral (Program)

Emi Zeger

Publications

PUBLICATIONS

- **Distributed Stochastic Optimization with Large Delays** *MATHEMATICS OF OPERATIONS RESEARCH*
Zhou, Z., Mertikopoulos, P., Bambos, N., Glynn, P., Ye, Y.
2021
- **Consensus-Based Stochastic Control for Model-Free Cell Balancing** *IEEE TRANSACTIONS ON CONTROL OF NETWORK SYSTEMS*
Bistritz, I., Bambos, N.
2021; 8 (3): 1139-1150
- **Wireless Body Area Network Control Policies for Energy-Efficient Health Monitoring** *SENSORS*
Bar David, Y., Geller, T., Bistritz, I., Ben-Gal, I., Bambos, N., Khmelnskiy, E.
2021; 21 (12)
- **Prediction of Prolonged Opioid Use After Surgery in Adolescents: Insights From Machine Learning.** *Anesthesia and analgesia*
Ward, A., Jani, T., De Souza, E., Scheinker, D., Bambos, N., Anderson, T. A.
2021
- **Robust Power Management via Learning and Game Design** *OPERATIONS RESEARCH*
Zhou, Z., Mertikopoulos, P., Moustakas, A. L., Bambos, N., Glynn, P.
2021; 69 (1): 331–45
- **An OpenAI-OpenDSS framework for reinforcement learning on distribution-level microgrids** *2021 IEEE Power & Energy Society General Meeting (PESGM)*
Moy, K., Tae, C., Wang, Y., Henri, G., Bambos, N., Rajagopal, R.
2021

- **Online Learning for Load Balancing of Unknown Monotone Resource Allocation Games**
Bistriz, I., Bambos, N., Meila, M., Zhang, T.
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2021
- **Incidence of and Factors Associated With Prolonged and Persistent Postoperative Opioid Use in Children 0-18 Years of Age.** *Anesthesia and analgesia*
Ward, A., De Souza, E., Miller, D., Wang, E., Sun, E. C., Bambos, N., Anderson, T. A.
2020; 131 (4): 1237-1248
- **Rates of, and Risk Factors for, Chronic Pain in Children and Young Adults Before and After Surgery**
Thapa, I., Ward, A. T., De Souza, B., Bambos, N., Anderson, T. A.
LIPPINCOTT WILLIAMS & WILKINS.2020: 691
- **Development and Validation of a Machine Learning Algorithm for Prediction of Prolonged Opioid Use After Surgery in Adolescents and Young Adults**
Jani, T., Ward, A. T., De Souza, B., Bambos, N., Anderson, T. A.
LIPPINCOTT WILLIAMS & WILKINS.2020: 712–13
- **Rates of, and Risk Factors for, Substance Use Disorder in Children and Young Adults Before and After Surgery**
Thapa, I., Ward, A. T., De Souza, B., Bambos, N., Anderson, T. A.
LIPPINCOTT WILLIAMS & WILKINS.2020: 689–90
- **Incidence of and Factors Associated With Prolonged and Persistent Postoperative Opioid Use in Children 0-18 Years of Age.** *Anesthesia and analgesia*
Ward, A., De Souza, E., Miller, D., Wang, E., Sun, E. C., Bambos, N., Anderson, T. A.
2020
- **ON THE CONVERGENCE OF MIRROR DESCENT BEYOND STOCHASTIC CONVEX PROGRAMMING** *SIAM JOURNAL ON OPTIMIZATION*
Zhou, Z., Mertikopoulos, P., Bambos, N., Boyd, S. P., Glynn, P. W.
2020; 30 (1): 687–716
- **Distributed Scheduling of Charging for-On-Demand Electric Vehicle Fleets**
Bistriz, I., Klein, M., Bambos, N., Maimon, O., Raagopal, R.
ELSEVIER.2020: 472-477
- **My Fair Bandit: Distributed Learning of Max-Min Fairness with Multi-player Bandits**
Bistriz, I., Baharav, T. Z., Leshem, A., Bambos, N., Daume, H., Singh, A.
JMLR-JOURNAL MACHINE LEARNING RESEARCH.2020
- **Clustering Users by Their Mobility Behavioral Patterns** *ACM TRANSACTIONS ON KNOWLEDGE DISCOVERY FROM DATA*
Ben-Gal, I., Weinstock, S., Singer, G., Bambos, N.
2019; 13 (4)
- **INCIDENCE OF PERSISTENT OPIOID USE IN CHILDREN AFTER SURGERY**
Anderson, T. A., Ward, A. T., De Souza, B., Wang, E., Miller, D., Bambos, N.
LIPPINCOTT WILLIAMS & WILKINS.2019: 764–65
- **Bidding-Based Dynamic Power Pricing Scheme in Smart Grids**
Ward, A., Zhou, Z., Bambos, N., IEEE
IEEE.2019: 729–34
- **Learning to Emulate an Expert Projective Cone Scheduler**
Ward, A., Master, N., Bambos, N., IEEE
IEEE.2019: 292–97
- **Asymptotically Optimal Distributed Gateway Load-Balancing for the Internet of Things**
Bistriz, I., Bambos, N., Cianfrani, A., Riggio, R., Steiner, R., Idzikowski, F.
IEEE.2019: 98–101
- **Controlling Contact Network Topology to Prevent Measles Outbreaks**
Bistriz, I., Bambos, N., Kahana, D., Ben-Gal, I., Yamin, D., IEEE
IEEE.2019

- **Anesthesiologist Surgery Assignments Using Policy Learning**
Ward, A., Zhou, Z., Bambos, N., Scheinker, D., Wang, E., IEEE
IEEE.2019
- **The Power of Consensus: Optimal Distributed Multichannel Wireless Transmitter Power Control**
Bistritz, I., Bambos, N., IEEE
IEEE.2019
- **Smart Greedy Distributed Allocation in Microgrids**
Bistritz, I., Ward, A., Zhou, Z., Bambos, N., IEEE
IEEE.2019
- **Learning Health State Transition Probabilities via Wireless Body Area Networks**
Geller, T., Bar David, Y., Khmelnsky, E., Ben-Gal, I., Ward, A., Miller, D., Bambos, N., IEEE
IEEE.2019
- **Online EXP3 Learning in Adversarial Bandits with Delayed Feedback**
Bistritz, I., Zhou, Z., Chen, X., Bambos, N., Blanchet, J., Wallach, H., Larochelle, H., Beygelzimer, A., d'Alche-Buc, F., Fox, E., Garnett, R.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2019
- **Deterministic and Stochastic Wireless Network Games: Equilibrium, Dynamics, and Price of Anarchy** *OPERATIONS RESEARCH*
Zhou, Z., Bambos, N., Glynn, P.
2018; 66 (6): 1498–1516
- **Infinite Time Horizon Maximum Causal Entropy Inverse Reinforcement Learning** *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*
Zhou, Z., Bloem, M., Bambos, N.
2018; 63 (9): 2787–2802
- **MYOPIC POLICIES FOR NON-PREEMPTIVE SCHEDULING OF JOBS WITH DECAYING VALUE** *PROBABILITY IN THE ENGINEERING AND INFORMATIONAL SCIENCES*
Master, N., Chan, C. W., Bambos, N.
2018; 32 (1): 1–36
- **Personalized Monitors for Real-Time Detection of Physiological States** *Chapter 42 in "Wearable Technologies: Concepts, Methodologies, Tools, and Applications" [Appeared before in the International Journal of e-Health and Medical Communications, 5(4):1-19, 2014]*
Chow, L., Bambos, N., Gilman, A., Chander, A.
IGI Global Press.2018: pp. 931–952
- **Sensing-Constrained Power Control in Digital Health**
Miller, D., Zhou, Z., Bambos, N., Ben-Gal, I., IEEE
IEEE.2018: 4213–20
- **Physiological Waveform Imputation of Missing Data using Convolutional Autoencoders**
Miller, D., Ward, A., Bambos, N., Scheinker, D., Shin, A., IEEE
IEEE.2018
- **Optimal Sensing for Patient Health Monitoring**
Miller, D., Zhou, Z., Bambos, N., Ben-Gal, I., IEEE
IEEE.2018
- **Robustness of Join-the-Shortest-Queue Scheduling to Communication Delay**
Mandian, S., Zhou, Z., Bambos, N., IEEE
IEEE.2018: 3708–13
- **Automatic Sleep Arousal Identification From Physiological Waveforms Using Deep Learning**
Miller, D., Ward, A., Bambos, N., IEEE
IEEE.2018
- **Learning in Games with Lossy Feedback**
Zhou, Z., Mertikopoulos, P., Athey, S., Bambos, N., Glynn, P., Ye, Y., Bengio, S., Wallach, H., Larochelle, H., Grauman, K., CesaBianchi, N., Garnett, R.

NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2018

- **Power Control with Random Delays: Robust Feedback Averaging**
Ward, A., Zhou, Z., Mertikopoulos, P., Bambos, N., IEEE
IEEE.2018: 7040–45
- **Optimal Health Monitoring via Wireless Body Area Networks**
Bar David, Y., Geller, T., Khmelinsky, E., Ben-Gal, I., Ward, A., Miller, D., Bambos, N., IEEE
IEEE.2018: 6800–6805
- **Service Rate Control of Tandem Queues With Power Constraints** *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*
Xia, L., Miller, D., Zhou, Z., Bambos, N.
2017; 62 (10): 5111–23
- **Longest-Queue-First Scheduling with Intermittent Sampling**
Mehdian, S., Zhou, Z., Bambos, N., IEEE
IEEE.2017
- **Improving Predictions of Pediatric Surgical Durations with Supervised Learning** *International Journal of Data Science and Analytics*
Master, N., Zhou, Z., Miller, D., Scheinker, D., Bambos, N., Glynn, P.
2017; 4: 35-52
- **Stochastic Models of Ground Delay Program Implementation for Prediction, Simulation and Insight** *Journal of Aerospace Operations*
Bloem, M., Bambos, N.
2017; 5: 85-117
- **Video Streaming Schemes for Industrial IoT**
Kanzaki, H., Schubert, K., Bambos, N., IEEE
IEEE.2017
- **A Practical Approach to Machine Learning for Clinical Decision Support Projects at Lucile Packard Children's Hospital Stanford in Partnership with Stanford Engineering**
Miller, D., Scheinker, D., Bambos, N., Cappanera, P., Li, J., Matta, A., Sahin, E., Vandaele, N. J., Visintin, F.
SPRINGER.2017: 111–20
- **An Infinite Dimensional Model for A Many Server Priority Queue**
Master, N., Zhou, Z., Bambos, N., IEEE
IEEE.2017
- **Wireless Channel Selection with Non-Invasive Power Probing**
Schubert, K., Bambos, N., IEEE
IEEE.2017
- **Stochastic Mirror Descent in Variationally Coherent Optimization Problems**
Zhou, Z., Mertikopoulos, P., Bambos, N., Boyd, S., Glynn, P., Guyon, Luxburg, U. V., Bengio, S., Wallach, H., Fergus, R., Vishwanathan, S., Garnett, R.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2017
- **Countering Feedback Delays in Multi-Agent Learning**
Zhou, Z., Mertikopoulos, P., Bambos, N., Glynn, P., Tomlin, C., Guyon, Luxburg, U. V., Bengio, S., Wallach, H., Fergus, R., Vishwanathan, S., Garnett, R.
NEURAL INFORMATION PROCESSING SYSTEMS (NIPS).2017
- **Asynchronous Best-Response Dynamics for Resource Allocation Games in Cloud Computing**
Schubert, K., Master, N., Zhou, Z., Bambos, N., IEEE
IEEE.2017: 4613–18
- **Market-Based Dynamic Service Mode Switching in Virtualized Wireless Networks**
Dimakopoulou, M., Bambos, N., Valdez-Vivas, M., Apostolopoulos, J., IEEE
IEEE.2017
- **Stable Power Control in Wireless Networks via Dual Averaging**
Zhou, Z., Mertikopoulos, P., Moustakas, A. L., Mehdian, S., Bambos, N., Glynn, P., IEEE

IEEE.2017

- **Mirror Descent Learning in Continuous Games**
Zhou, Z., Mertikopoulos, P., Moustakas, A. L., Bambos, N., Glynn, P., IEEE
IEEE.2017
- **An Infinite Dimensional Model for A Single Server Priority Queue**
Master, N., Zhou, Z., Bambos, N., IEEE
IEEE.2017: 1753–58
- **Join-the-Shortest-Queue Scheduling with Delay**
Mehdian, S., Zhou, Z., Bambos, N., IEEE
IEEE.2017: 1747–52
- **Classical Communication Network Design via Quantum Heuristics**
Ward, A., Master, N., Bambos, N., IEEE
IEEE.2017
- **Power control for packet streaming with head-of-line deadlines** *PERFORMANCE EVALUATION*
Master, N., Bambos, N.
2016; 106: 1-18
- **Power Optimization in Random Wireless Networks** *IEEE TRANSACTIONS ON INFORMATION THEORY*
Moustakas, A. L., Mertikopoulos, P., Bambos, N.
2016; 62 (9): 5030-5058
- **Adaptive Prefetching in Wireless Computing** *IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS*
Master, N., Dua, A., Tsamis, D., Singh, J. P., Bambos, N.
2016; 15 (5): 3296-3310
- **Maximum weight matching with hysteresis in overloaded queues with setups** *QUEUEING SYSTEMS*
Chan, C. W., Armony, M., Bambos, N.
2016; 82 (3-4): 315-351
- **Dynamic Control of Data Center Network and Computation Resources**
Miller, D., Xia, L., Zhou, Z., Bambos, N., IEEE
IEEE.2016: 374–80
- **Detecting Inaccurate Predictions of Pediatric Surgical Durations**
Zhou, Z., Miller, D., Master, N., Scheinker, D., Bambos, N., Glynn, P., IEEE
IEEE.2016: 452–57
- **A Stochastic Stability Characterization of the Foschini-Miljanic Algorithm in Random Wireless Networks**
Zhou, Z., Miller, D., Bambos, N., Glynn, P., IEEE
IEEE.2016
- **Dynamics on Linear Influence Network Games Under Stochastic Environments**
Zhou, Z., Bambos, N., Glynn, P., Zhu, Q., Alpcan, T., Panaousis, E., Tambe, M., Casey, W.
SPRINGER INT PUBLISHING AG.2016: 114–26
- **Data Aggregation for Low Power Wireless Devices**
Schubert, K., Bambos, N., IEEE
IEEE.2016: 97–102
- **Wireless Power Controlled TCP with Holdover**
Schubert, K., Bambos, N., IEEE
IEEE.2016
- **Infinite Server Queueing Networks with Deadline Based Routing**
Master, N., Bambos, N., IEEE

IEEE.2016: 5360–66

- **Repeated Games for Power Control in Wireless Communications: Equilibrium and Regret**
Zhou, Z., Glynn, P., Bambos, N., IEEE
IEEE.2016: 3603–10
- **Reliable and Efficient Performance Monitoring in Linux**
Dimakopoulou, M., Eranian, S., Koziris, N., Bambos, N., IEEE
IEEE.2016: 396–406
- **Cost-Sensitive Security Risk Management for Large-Scale Computing Infrastructures**
Master, N., Bambos, N., IEEE
IEEE.2016: 115–19
- **Reliable and Efficient Performance Monitoring in Linux**
Dimakopoulou, M., Eranian, S., Koziris, N., Bambos, N., IEEE
IEEE.2016: 407–8
- **Cone Schedules for Processing Systems in Fluctuating Environments** *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*
Ross, K., Bambos, N., Michailidis, G.
2015; 60 (10): 2710-2715
- **Ground Delay Program Analytics with Behavioral Cloning and Inverse Reinforcement Learning** *JOURNAL OF AEROSPACE INFORMATION SYSTEMS*
Bloem, M., Bambos, N.
2015; 12 (3): 299-313
- **Dynamic Management of Network Risk from Epidemic Phenomena**
Sinha, A., Duchi, J., Bambos, N., IEEE
IEEE.2015: 1583–88
- **Scalable Data Center Power Management via a Global Stress Signal**
Miller, D., Master, N., Zhou, Z., Bambos, N., IEEE
IEEE.2015
- **Service Rate Control For Jobs with Decaying Value**
Master, N., Bambos, N., IEEE
IEEE.2015: 3255–60
- **Channel Responsive Wireless TCP**
Endo, H., Schubert, K., Bambos, N., IEEE
IEEE.2015: 3622–27
- **Wireless Communications Games in Fixed and Random Environments**
Zhou, Z., Bambos, N., IEEE
IEEE.2015: 1637–42
- **Target-Rate Driven Resource Sharing in Queueing Systems**
Zhou, Z., Bambos, N., IEEE
IEEE.2015: 4940–45
- **A General Model for Resource Allocation in Utility Computing**
Zhou, Z., Bambos, N., IEEE
IEEE.2015: 1746–51
- **Low Latency Policy Iteration via Parallel Processing and Randomization**
Master, N., Bambos, N., IEEE
IEEE.2015: 1084–91
- **Air Traffic Control Area Configuration Advisories from Near-Optimal Distinct Paths** *JOURNAL OF AEROSPACE INFORMATION SYSTEMS*
Bloem, M., Bambos, N.

2014; 11 (11): 764-784

- **BEST-AP: Non-intrusive estimation of available bandwidth and its application for dynamic access point selection** *COMPUTER COMMUNICATIONS*
Dely, P., Kessler, A., Chow, L., Bambos, N., Bayer, N., Einsiedler, H., Peylo, C.
2014; 39: 78-91
- **Randomized Iterations for Low Latency Fixed Point Computation**
Master, N., Bambos, N., IEEE
IEEE.2014: 5208-15
- **Infinite Time Horizon Maximum Causal Entropy Inverse Reinforcement Learning**
Bloem, M., Bambos, N., IEEE
IEEE.2014: 4911-16
- **Personalized Monitors for Real-Time Detection of Physiological States** *INTERNATIONAL JOURNAL OF E-HEALTH AND MEDICAL COMMUNICATIONS*
Chow, L., Bambos, N., Gilman, A., Chander, A.
2014; 5 (4): 1-19
- **Power-Controlled Multiple Access with a Queue-Dependent Backoff Threshold**
Mounzer, J., Schubert, K., Bambos, N., Goldsmith, A., IEEE
IEEE.2014: 4738-44
- **Channel Exploration for Wireless Media Streaming with Handoff and Rebuffering Control**
Chow, L., Bambos, N., Singh, J., Jamalipour, A., Deng, D. J.
IEEE.2014: 2282-88
- **Dynamic Resource Management in Virtualized Data Centers with Bursty Traffic**
Valdez-Vivas, M., Bambos, N., Apostolopoulos, J., Jamalipour, A., Deng, D. J.
IEEE.2014: 4287-93
- **Distributed Smart Grid Architecture for Delay and Price Sensitive Power Management**
Master, N., Mounzer, J., Bambos, N., Jamalipour, A., Deng, D. J.
IEEE.2014: 3670-75
- **Power Control for Wireless Streaming with HOL Packet Deadlines**
Master, N., Bambos, N., Jamalipour, A., Deng, D. J.
IEEE.2014: 2263-69
- **Resource Management in Cloud Computing with Frictions and Congestion Weather**
Valdez-Vivas, M., Bambos, N., Apostolopoulos, J., IEEE
IEEE.2014: 2344-50
- **Network-Assisted Mobile Computing with Optimal Uplink Query Processing** *IEEE TRANSACTIONS ON MOBILE COMPUTING*
Chan, C. W., Bambos, N., Singh, J. P.
2013; 12 (6): 1065-1078
- **A software-defined networking approach for handover management with real-time video in WLANs** *JOURNAL OF MODERN TRANSPORTATION*
Dely, P., Kessler, A., Chow, L., Bambos, N., Bayer, N., Einsiedler, H., Peylo, C., Mellado, D., Sanchez, M.
2013; 21 (1): 58-65
- **Power Optimization on a Random Wireless Network** *IEEE International Symposium on Information Theory Proceedings (ISIT)*
Moustakas, A. L., Bambos, N.
IEEE.2013: 844-848
- **Channel Aware Rebuffering for Wireless Media Streaming with Handoff Control**
Chow, L., Collins, B., Bambos, N., Dely, P., Kessler, A., Peylo, C., Einsiedler, H., Bayer, N., IEEE
IEEE.2013: 4434-39
- **Congestion versus Accuracy Tradeoffs in IP Traffic Classification**
Valdez-Vivas, M., Bambos, N., IEEE

IEEE.2013: 1428–33

- **Playout Buffer Responsive Wireless Streaming for Multiple Clients**
Bommanavar, P., Apostolopoulos, J., Bambos, N., IEEE
IEEE.2013: 2276–81
- **Delay-Sensitive Power Management for Packet Switches** *IEEE International Conference on Communications (ICC)*
Valdez-Vivas, M., Bambos, N., O'Neill, D.
IEEE.2013: 4443–4448
- **Resource Allocation and Scheduling for Energy Efficient Tracking** *IEEE International Conference on Communications (ICC)*
Bommanavar, P., Apostolopoulos, J., Bambos, N.
IEEE.2013: 1532–1537
- **Latency and Energy in Quality-Driven Applications for Networked Wireless Devices** *IEEE International Conference on Communications (ICC)*
Valdez-Vivas, M., Bambos, N.
IEEE.2013: 6019–6024
- **Deadline Aware Packet Scheduling in Switches for Multimedia Streaming Applications** *IEEE International Conference on Communications (ICC)*
Bommanavar, P., Apostolopoulos, J., Bambos, N.
IEEE.2013: 3797–3802
- **Power and Delay Aware Management of Packet Switches** *IEEE TRANSACTIONS ON COMPUTERS*
Mastroleon, L., O'Neill, D. C., Yolken, B., Bambos, N.
2012; 61 (12): 1789-1799
- **Optimizing Intensive Care Unit Discharge Decisions with Patient Readmissions** *OPERATIONS RESEARCH*
Chan, C. W., Farias, V. F., Bambos, N., Escobar, G. J.
2012; 60 (6): 1323-1341
- **Nonlinear Cooperative Dynamics in Distributed Power Control for Wireless Networks** *IEEE International Conference on Communications (ICC)*
Mounzer, J., Bambos, N.
IEEE.2012
- **Approximating the Likelihood of Historical Airline Actions to Evaluate Airline Delay Cost Functions** *51st IEEE Annual Conference on Decision and Control (CDC)*
Bloem, M., Huang, H., Bambos, N.
IEEE.2012: 508–513
- **Resource Constrained Failure Management in Networked Computing Systems** *IEEE Global Communications Conference (GLOBECOM)*
Bommanavar, P., Bambos, N.
IEEE.2012
- **Playout-Buffer Aware Hand-Off Control for Wireless Video Streaming** *IEEE Global Communications Conference (GLOBECOM)*
Chow, L., Collins, B., Bambos, N., Peylo, C., Einsiedler, H., Bayer, N., Dely, P., Kessler, A.
IEEE.2012: 5237–5242
- **Power Optimization on a Network: The effects of randomness** *IEEE International Symposium on Information Theory*
Moustakas, A. L., Bambos, N.
IEEE.2012: 606–610
- **Power Budgeted Packet Scheduling for Wireless Multimedia** *IEEE International Conference on Communications (ICC)*
Bommanavar, P., Bambos, N., Apostolopoulos, J.
IEEE.2012: 2108–2113
- **Distributed Delay-Power Control Algorithms for Bandwidth Sharing in Wireless Networks** *IEEE-ACM TRANSACTIONS ON NETWORKING*
Baccelli, F., Bambos, N., Gast, N.
2011; 19 (5): 1458-1471
- **An Integrated Approach to Security Risk Management for IT-Intensive Organizations** *JOURNAL OF INFORMATION ASSURANCE AND SECURITY*
Mounzer, J., Alpcan, T., Bambos, N.

2011; 6 (2): 115–23

- **Game based capacity allocation for utility computing environments** *International Conference on Game Theory for Networks*
Yolken, B., Bambos, N.
SPRINGER.2011: 165–81
- **Coordinated Tactical Air Traffic and Airspace Management** *50th IEEE Conference of Decision and Control (CDC)/European Control Conference (ECC)*
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