Ioannis Mitliagkas
Curriculum Vitae

Contact Information

Department of Electrical and Computer Engineering
The University of Texas at Austin
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Education

The University of Texas at Austin

PhD candidate at the ECE department. September 2009 -

- Advised by: Prof. Constantine Caramanis
- Advised by: Prof. Sriram Vishwanath
- GPA: 3.82/4.0

Technical University of Crete, Chania, Greece

MSc. in ECE dept. September 2008 - August 2009

Successfully defended thesis in the summer of 2010.

- Advisor: Professor Nikos D. Sidiropoulos
- Area of Study: Optimization Problems in Wireless Telecommunications

Diploma, Electronic and Computer Engineering, September 2002 - September 2008

- Advisor: Professor Nikos D. Sidiropoulos
- Thesis Topic: Convex Approximation-based Joint Power and Admission Control for Cognitive Underlay Networks
- GPA: 9.01/10

Scholarships, Awards

The University of Texas at Austin,
- Microelectronics and Computer Development (MCD) Fellowship, 2009-2011

Technical University of Crete
- Undergraduate excellence award, 2008

State Scholarships Foundation (Greece)
- Undergraduate excellence award, 2005

Technical Chamber of Greece
- Undergraduate excellence award, 2005

Academic Experience

Teaching - Information Theory **Spring 2012**

Teaching - Telecommunication Networks **Fall 2008**

Undergraduate Researcher **May 2007 to August 2008**

Research Interests

Machine Learning, Streaming Algorithms, Graph Computation.

Publications

I. Mitliagkas, M. Borokhovich, A. Dimakis, C. Caramanis FrogWild! – Fast PageRank Approximations on Graph Engines. Submitted to VLDB.

I. Mitliagkas, C. Caramanis, P. Jain. Streaming PCA with Many Missing Entries. Preprint.

D. Papailiopoulos, I. Mitliagkas, A. Dimakis, C. Caramanis. Finding dense subgraphs through low-rank approximations. *ICML, 2014*.

I. Mitliagkas, C. Caramanis, P. Jain. Memory-limited Streaming PCA. *NIPS, 2013*.

I. Mitliagkas, A. Gopalan, C. Caramanis, S. Vishwanath. User Rankings from Comparisons: Learning Permutations in High Dimensions. *Allerton Conference on Communication, Control, and Computing, 2011*.

I. Mitliagkas, S. Vishwanath. Strong Information-Theoretic Limits for Source/Model Recovery. Appeared in *Allerton Conference on Communication, Control, and Computing, 2010*.

I. Mitliagkas, N. D. Sidiropoulos, and A. Swami. Joint Power and Admission Control for Ad-hoc and Cognitive Underlay Networks: Convex Approximation and Distributed Implementation. Accepted in *IEEE Transactions on Wirelesss Communications*.

I. Mitliagkas, N. D. Sidiropoulos, and A. Swami. Distributed Joint Power and Admission Control for Ad-hoc and Cognitive Underlay Networks. *ICASSP 2010*.

I. Mitliagkas, N. D. Sidiropoulos, and A. Swami. Convex Approximation-based Joint Power and Admission Control for Cognitive Underlay Networks. *International Wireless Communications and Mobile Computing Conference, 2008. IWCMC'08. IEEE*.

Professional Service

Reviewer for plethora of journals and conferences including ISIT, ICASSP, Transactions on Wireless Communications, NIPS and more.

Social Service

Active involvement with the local Greek community; founding member of Greek folk band, performing and spreading the traditional Greek sound.

Technical Skills

Extensive hardware and software experience as covered by curriculum of electronic engineering studies. Most notably:

Extensive Matlab experience for course and thesis projects.

Extensive experience with optimization libraries/toolboxes including SeDuMi, SDPT3 and CVX.

Hardware design and programming: VHDL, assembly language programming (x86, MIPS, AVR).

Programming: C, C++, C# (under Mono framework), Java, Python, Perl, UNIX shell scripting, SQL, RCS, CVS, SVN, and others. Some experience in MPI (programming for clusters/grids).

Some experience in reverse software engineering and network vulnerability detection tools.

Operating Systems: Expert Linux knowledge. FreeBSD and other UNIX variants.

Graduate Course Highlights

Algorithms: Techniques and Theory

Convex Analysis

Information Theory

Systems Theory

Topics in Network Sciences

Analysis and Design of Communication Networks

Theory of Probability (Math Dept.)