Congratulations to the 2011-2012 PhD Graduates!

This year's 2011-2012 graduating PhD class is the largest PhD graduating class in CSE history! There are 34 PhD graduates! Many of this year's graduates have secured employment in academia, as well as positions within industry. The CSE Department wants to congratulate all of them on their wonderful acheivements and wish them the best of luck in their future endeavors!

Mohammad Al-Fares
Advisor: Amin Vahdat
Dissertation Title: A Scalable, Adaptive, and Extensible Data Center Network Architecture
Current Employment: Google, Software Engineer

Raid Ayoub
Advisor: Tajana Rosing
Dissertation Title: Temperature and Cooling Management in Computing Systems
Current Employment: Intel, Research Scientist

Boris Babenko
Advisor: Serge Belongie
Dissertation Title: Training Discriminative Computer Vision Models with Weak Supervision
Current Employment: Anchovi Labs, Inc., President

Natalie Castellana
Advisor: Vineet Bafna
Dissertation Title: Proteogenomics: Applications of Mass Spectrometry at the Interface of Genomics and Proteomics
Current Employment: Digital Proteomics, Chief Technology Officer

Stephen Checkoway
Advisor: Hovav Shacham
Dissertation Title: Low-Level Software Security: Exploiting Memory Safety Vulnerabilities and Assumptions
Current Employment: John Hopkins University, Asst. Research Professor

Youngmin Cho
Advisor: Lawrence Saul
Dissertation Title: Kernel Methods for Deep Learning
Current Employment: Google, GSR

Joel Coburn
Advisor: Rajesh Gupta & Steven Swanson
Dissertation Title: Providing Fast and Safe Access to Next -Generation, Non-Volatile Memories
Preferred Employment: To be determined

Elio Damaggio
Advisor: Alin Deutsch & Victor Vianu
Dissertation Title: Verification of Business Process Specifications with Arithmetic and Data Dependencies
Current Employment: Microsoft, Program Manager

Matt DeVuyst
Advisor: Dean Tullsen
Dissertation Title: Efficient Use of Execution Resources in Multicore Processor Architectures
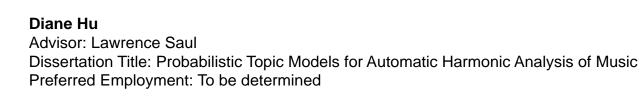Preferred Employment: To be determined

Peng Du
Advisor: Chung K. Cheng
Dissertation Title: Power Network Verification and Optimization at Planning Stages
Current Employment: Google, Software Engineer

Toshiya Hachisuka
Advisor: Henrik Wann Jensen
Dissertation Title: Robust Light Transport Simulation Using Progressive Density Estimation
Current Employment: Aarhus University, Assistant Professor

Diane Hu
Advisor: Lawrence Saul
Dissertation Title: Probabilistic Topic Models for Automatic Harmonic Analysis of Music
Preferred Employment: To be determined

Chris Kanich
Advisor: Geoff Voelker & Stefan Savage
Dissertation Title: Characterizing Internet Scams through Underground Infrastructure Infiltration
Current Employment: University of Illinois, Assistant Professor

Han Suk Kim
Advisor: Jurgen Schulze
Dissertation Title: Visual Exploration in Volume Rendering for Multi-Channel Data
Current Employment: Apple Inc., Software Engineer

Sangtae Kim
Advisor: Pavel Pevzner
Dissertation Title: Generating Functions of Tandem Mass Spectra and Their Applications for Peptide Identifications
Current Employment: Pacific Northwest National Laboratory, Staff Scientist

Kaisen Lin
Advisor: Rajesh Gupta
Dissertation Title: Toward a Sensor-Actuation Software Platform
Preferred Employment: To be determined

Wan-Yen Lo
Advisor: Henrik Jensen & Matthias Zwicker
Dissertation Title: Interactive Motion Planning with Motion Capture Data
Current Employment: Google Switzerland, Software Engineer

Dionysios Logothetis
Advisor: Kenneth Yocum
Dissertation Title: Architectures for Stateful Data- intensive Analytics
Current Employment: Telefonica Research, Associate Researcher

William Matthews
Advisor: Russell Impagliazzo & Mohan Paturi
Dissertation Title: A Satisfiability Algorithm for Constant Depth Boolean Circuits with Unbounded Fan-In Gates
Current Employment: Google, Software Engineer

Brian McFee
Advisor: Gert Lanckriet
Dissertation Title: More like this: Machine Learning Approaches to Music Similarity
Preferred Employment: Academia

Marti Motoyama
Advisor: Stefan Savage, George Varghese, & Geoffery M. Voelker
Dissertation Title: Understanding the Role of Outsourced Labor in Web Service Abuse
Current Employment: Fitbit, Software Engineer

Catherine Olschanowsky
Advisor: Allan Snavely
Dissertation Title: HPC Application Address Stream Compression, Replay and Scaling
Current Employment: Colorado State University, Post Doc.

Shengjun Pan
Advisor: Alon Orlitsky (ECE)
Dissertation Title: On the Theory and Application of Pattern Maximum Likelihood
Current Employment: Experian, Scientist

Qian Peng
Advisor: Pavel Pevzner
Dissertation Title: Computational Methods and Analyses in Comparative Genomics and Epigenomics
Current Employment: Scripps Research Institutue, Research Associate

Leo Porter
Advisor: Dean M. Tullsen
Dissertation Title: Single Thread Performance in the Multi-core Era
Current Employment: Skidmore College, Assistant Professor

Shervin Sharifi
Advisor: Tajana Rosing
Dissertation Title: Accurate Temperature Sensing and Efficient Dynamic Thermal Management in MPSoCs
Current Employment: SoC Architect Qualcomm, Staff Engineer

Amirali Shayan Arani
Advisor: Chung K. Cheng
Dissertation Title: System Level Design of Power Distribution Network for Mobile Computing Platforms
Current Employment: Qualcomm, Staff Engineer

Michael Benjamin Stepp
Advisor: Sorin Lerner
Dissertation Title: Equality Saturation: Engineering Challenges and Applications
Current Employment: Google, Software Engineer

Cynthia Taylor
Advisor: Joe Pasquale
Dissertation Title: The Networked Device Driver Architecture: A Solution for Remote I/O
Current Employment: Oberlin College, Assistant Professor

Alexander Tsiatas
Advisor: Fan Chung Graham
Dissertation Title: Diffusion and Clustering on Large Graphs
Current Employment: Google, Software Engineer

Didem Unat
Advisor: Scott B. Baden
Dissertation Title: Domain-Specific Translator and Optimizer for Massive On-Chip Parallelism
Current Employment: Lawrence Berkeley National Laboratory, Post Doc. Fellow

Avinash Vyas
Advisor: Alin Deutsch
Dissertation Title: Policy- Aware Sender Anonymity in Location-Based Services
Current Employment: Alcatel-Lucent; Member of Technical Staff at Bell Labs

Congrats again to all the CSE PhD graduates & good luck!

So Yamaoka
Advisor: Falko Kuester
Dissertation Title: Visual Analytics in Scalable Visualization Environments
Current Employment: Apple Inc., Software Engineer

Wenbo Zhao
Advisor: Fan Chung Graham
Dissertation Title: Ranking and Sparsifying Edges of a Graph
Current Employment: Two Sigma Investments, Software Engineer

2 FRIENDS OF CSE & CALIT2 WIN 2012 GÖDEL PRIZE!

Congratulations to two friends of Calit2 and UCSD's Computer Science and Engineering department: Christos Papadimitrou of UC Berkeley and the University of Athens' Elias Koutsoupias have won the 2012 Gödel Prize, which recognizes outstanding papers in theoretical computer science published over the past 14 years. The 2012 prize honored the authors of three prominent papers that helped to launch the field of Algorithmic Game Theory. In one of those papers, "Worst-case Equilibria," Koutsoupias and Papadimitriou introduced the "price of anarchy" concept, a measure of the extent to which competition approximates cooperation. It quantifies how much performance is lost due to selfish behaviors in systems like the Internet, which operates without a system designer or monitor striving to achieve the "social optimum." Their answer, surprisingly often, is "not that much." Koutsoupias earned his Ph.D. from JSOE's CSE department in 1994, and Papadimitriou (who was also a former CSE Faculty member) co-authored the textbook "Algorithms" (2006) with CSE's Sanjoy Dasgupta. Papadimitriou was Koutsoupias thesis adviser at UCSD before Papadimitriou left UCSD for Berkeley. Papadimitriou alsoparticipated in Calit2's Behavioral, Social and Computer Sciences Seminar Series in 2009. His talk in that series, "The Algorithmic Lens: How the Computational Perspective Is Transforming the Sciences," introduced by Mohan Paturi, is available on our SciVee feed: http://bit.ly/h0UcO0

CHECK OUT NEW BOOK FROM CSE PROFESSOR YOAV FREUND!

A new book was just published and written by CSE professor Yoav Freund along with Professor Rob Schapire from Princeton. The book is titled : "Boosting: Foundations and Algorithms" and can be purchased on Amazon.com. Check out the links below for more info.
http://mitpress.mit.edu/9780262017183
http://www.amazon.com/Boosting-Foundations-Algorithms-Adaptive-Computation/dp/0262017180