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Professional Experience

Turn Inc Redwood City, CA	Sr. Applied Scientist August 2012 - Current
Yahoo! Labs Santa Clara, CA	Applied Scientist May 2012 - August 2012
Toyota Technological Institute Chicago, IL	Research Intern Fall 2011
Solar Power Technologies Austin, TX	Wireless Communication R&D Intern Summer 2010

Education

Electrical and Computer Engineering Department, University of Texas at Austin Austin, TX Thesis: Dirty Statistical Models under Prof. Sujay Sanghavi Note: I started my PhD at Purdue University in Spring 2008 and then moved to UT Austin with my adviser in Fall 2009.	<i>PhD in Electrical and Computer Engineering</i> 2009-2012
Computer Engineering Department, Sharif University of Technology Tehran, Iran Thesis: Information Theoretic Approach to Distributed Video Coding	<i>Master of Science in IT/Data Communication</i> 2005-2007
Electrical Engineering Department, Sharif University of Technology Tehran, Iran	<i>Bachelor of Science in Electrical Engineering</i> 1999-2004

Interests

- Learning Theory
- Optimization Theory
- Low-Complexity Algorithms
- Machine Learning
- Structure Learning
- High Dimensional Statistics

Research Experience

Wireless Networking Communication Group University of Texas at Austin <i>Research on high-dimensional statistical machine learning problems.</i>	Research Assistant Fall 2009 - present
Advanced Communication Systems Lab. Purdue University <i>Research on multi-way information theory problems and related applications.</i>	Research Assistant Spring 2008 - Summer 2009

Publications

- Ali Jalali and Sujay Sanghavi, "A New Greedy Algorithm for Multiple Sparse Regression," 2013.
- Ali Jalali, Santanu Kolay, Peter Foldes and Ali Dasdan, "Scalable Audience Reach Estimation in Real-time Online Advertising," 2013.
- Kuang-Chih Lee, Ali Jalali and Ali Dasdan, "Real Time Bid Optimization with Smooth Budget Delivery in Online Advertising," 2013.
- Ali Jalali, Javad Azimi, Xiaoli Fern and Ruofei (Bruce) Zhang, "Exploration vs Exploitation in Bayesian Optimization," ECML, 2013.
- Ali Jalali and Nathan Srebro, "Clustering using Max-norm Constrained Optimization," ICML, 2012.
- Ali Jalali and Sujay Sanghavi, "Learning the Dependence Graph of Time Series with Latent Factors," ICML, 2012.
- Javad Azimi, Ali Jalali and Xiaoli Fern, "Hybrid Batch Bayesian Optimization," ICML, 2012.
- Christopher Johnson, Ali Jalali and Pradeep Ravikumar, "High-dimensional Sparse Inverse Covariance Estimation using Greedy Methods," AI STAT, 2012. (**Oral Presentation**)
- Ali Jalali, Christopher Johnson and Pradeep Ravikumar, "On Learning Discrete Graphical Models Using Greedy Methods," NIPS, 2011. (**Spotlight**)
- Ali Jalali, Yudong Chen, Sujay Sanghavi and Huan Xu, "Clustering Partially Observed Graphs via Convex Optimization," ICML, 2011.

- Yudong Chen, Ali Jalali, Sujay Sanghavi and Constantine Caramanis, “Low-Rank Matrix Recovery From Errors and Erasures,” ISIT, 2011.
- Ali Jalali, Pradeep Ravikumar, Vishvas Vasuki and Sujay Sanghavi, “On Learning Discrete Graphical Models using Group-Sparse Regularization,” AI STAT, 2011.
- Ali Jalali, Pradeep Ravikumar, Sujay Sanghavi and Chao Ruan, “A Dirty Model for Multi-task Learning,” NIPS, 2010. (**Oral Presentation**) — Journal Version: *IEEE Transaction on Information Theory*, 2013.
- Ali Jalali and Sujay Sanghavi, “Graph Clustering via Convex Optimization,” Information Theory Workshop, San Diego, CA, 2010. (invited)
- Ali Jalali and David Love, “Closed-Form Expression for Optimal Two-User MIMO Unitary Precoding,” IEEE Communications Letters, vol. 13, pp. 251-253, 2009.
- Ali Jalali, David Love, Sujay Sanghavi and Bertrand Hochwald, “Conferencing on Trees,” Conference on Information Sciences and Systems (CISS’09), Baltimore, MD, Mar. 18 - Mar. 20, 2009.
- Chun-Kin Au-Yeung, Ali Jalali and David Love, “Insights into feedback and feedback signaling for beam-former design,” in UCSD Information Theory and Applications Workshop, La Jolla, CA, 2009. (invited)
- Hossein Ravanbod and Ali Jalali, “Configurable ultrasonic flaw classification of oil pipelines,” Part II: Feature Extraction, Classification and Error Verification, Nondestructive Testing and Evaluation, Vol. 23, pp. 77-88, June 2008.
- Hossein Ravanbod and Ali Jalali, “Configurable ultrasonic flaw classification of oil pipelines,” Part I: Image Acquisition, Pre-processing and Flaw Area and Volume Estimation, Nondestructive Testing and Evaluation, Vol. 23, pp. 43-55, March 2008.
- Hossein Ravanbod, Freidoun Behnia and Ali Jalali, “Determining the required information in scanning of the oil pipelines,” Sharif Scientific Journal: Electrical and Computer Engineering, Vol. 38, pp. 52-61, 2007. (In Persian)
- Ali Jalali and Hamid Sarbazi-Azad, “The edge product of networks,” Eighth International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT’07), pp. 371-375, 2007.
- Ali Jalali, Seyyed Morteza Mousavi, Hossein Sameti and Hamid Reza Rabiee, “A new generalized side-lobe canceler based algorithm for speech enhancement”, in Proceeding of the 15th Iranian Conference in Electrical Engineering (ICEE), Tehran, Iran, 2006. (In Persian)

Sparsity, Structure and Algorithms

Electrical and Computer Engineering Department
University of Texas at Austin, Austin, TX

Teaching Assistant
Spring 2010, Spring 2012

Stochastic Processes

Computer Engineering Department
Sharif University of Technology, Tehran, Iran

Teaching Assistant
Fall 2006

-
- IEEE Transaction on Information Theory
 - Elsevier Artificial Intelligence
 - IEEE Communication Letters
 - Journal of Machine Learning Research
 - IEEE Transaction on Pattern Recognition and Machine Intelligence
 - Neural Information Processing Systems (NIPS) Conference
 - International Conference on Machine Learning (ICML)
 - Conference On Learning Theory (COLT)
 - International Joint Conferences on Artificial Intelligence (IJCAI)
 - International Conference in Communications (ICC)

-
- Programming and Systems: Hadoop, Pig, SQL, Java, Python, C++
 - Mathematical Analysis and Simulation using R and MATLAB

Farsi: Native
English: Fluent

Teaching Experience

Technical Reviews

Professional Skills

Languages