Negin Golrezaei

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Research Interests   Mechanism Design, Auctions, Game Theory, Optimization Algorithms, Machine Learning, Electronic Commerce, Revenue Management, and Wireless Communication.

Education   Ph.D., Data Sciences and Operations Department   2012-present
Marshall School of Business, University of Southern California, Los Angeles, CA
–advisor: Prof. Hamid Nazerzadeh

Selected Courses (GPA: 4/4)
- Econometric Methods, Microeconomic Theory,
- Optimization Algorithms, Stochastic Optimizations, Dynamic Programming and Markov Decision Processes,
- Inventory Models and Supply Chain Management, Strategic and Marketing Mix Models,
- Random Processes, Estimation Theory

M.Sc., Electrical Engineering Department   2011-2012
Viterbi School of Engineering, University of Southern California, Los Angeles, CA

M.Sc., Electrical Engineering Department   2007-2009
Sharif University of Technology, Tehran, Iran

B.Sc., Electrical Engineering Department   2003-2007
Sharif University of Technology, Tehran, Iran

Awards and   Provost Fellowship, University of Southern California, 2011.
Achievements   Ranked 1st (highest GPA) among M.Sc. students in the field of Communications at Sharif University of Technology, 2009.
Ranked 1st (highest GPA) among B.Sc. students in the field of Electronics at Sharif University of Technology, 2007.
Ranked among top 0.02%, among approximately 500,000 participants in the national entrance exam for Iranian universities, Iran, 2003.

Work Experience   Summer Intern, Google, New York   2015
Collaborators: Vahab Mirrokni, Nitish Korula, and Prateek Patel

Working Papers   N. Golrezaei and H. Nazerzadeh, "Auctions with Dynamic Costly Information Acquisition," Revise and Resubmit, **Operations Research**, 2015.

Journal Papers   N. Golrezaei, H. Nazerzadeh, and P. Rusmevichientong, "Real-time Optimization of Personalized Assortments," **Management Science**, vol. 60, issue 6, pp. 1532 - 1551, February, 2014.

N. Golrezaei, A.G. Dimakis, and A.F. Molisch, "Scaling Behaviors of Wireless Device-to-Device Communications with Distributed Caching," IEEE Transactions on Information Theory, forthcoming, vol. 60, issue 7, pp. 4286 - 4298, July, 2014.

N. Golrezaei, P. Mansourifard, A.F. Molisch, and A.G. Dimakis, "Base-Station Assisted Device-to-Device Communications for High-Throughput Wireless Video Networks," IEEE Transactions on Wireless Communications, vol. 13, issue 7, pp. 3665 - 3676, July, 2014.

K. Shanmugam, N. Golrezaei, A.G. Dimakis, A.F. Molisch, and G. Caire, "FemtoCaching: Wireless Video Content Delivery through Distributed Caching Helpers," IEEE Transactions on Information Theory, vol. 59, issue 12, pp. 8402 - 8413, December, 2013.

N. Golrezaei, A.F. Molisch, A.G. Dimakis, and G. Caire, "Femtocaching and Device-to-Device Collaboration: A New Architecture for Wireless Video Distribution," IEEE Communications Magazine, vol. 51, issue 4, pp. 142 - 149, April, 2013.

N. Golrezaei and M. Nasiri-Kenari, "Orthogonal Frequency Division Multiple Access-Based Cognitive Radio Networks with Relaying Capability," IET Communication, vol. 4, issue 4, pp. 395 - 409, March, 2010.

Conference Proceedings

N. Golrezaei and H. Nazerzadeh, "Auctions with Dynamic Costly Information Acquisition," 10th Ad Auction workshop, 15th ACM Conference on Economics and Computation (EC14), Palo Alto, California, June 8-12, 2014.

N. Golrezaei and H. Nazerzadeh, "Pricing Schemes for Metropolitan Traffic Data Markets," 3rd International Conference on Data Management Technologies and Applications, Vienna, Austria, September 3-5, 2014.

N. Golrezaei, H. Nazerzadeh, and P. Rusmevichientong, "Real-time Optimization of Personalized Assortments," 14th ACM Conference on Electronic Commerce (EC13), pp. 561 - 562, Philadelphia, PA, June 16-20, 2013.

N. Golrezaei, K. Shanmugam, A.G. Dimakis, A.F. Molisch, and G. Caire, "FemtoCaching: Wireless Video Content Delivery through Distributed Caching Helpers," International Conference on Computer Communications (INFOCOM), pp. 1107 - 1115, Orlando, FL, March 25-30, 2012.

N. Golrezaei, A.G. Dimakis, and A.F. Molisch, "Wireless Device-to-Device Communications with Distributed Caching," IEEE International Symposium on Information Theory (ISIT), pp. 2781- 2785, Cambridge, MA, July 1-6, 2012.

N. Golrezaei, M Ji, A.F. Molisch, A.G. Dimakis, and G. Caire, "Device-to-Device Communications for Wireless Video Delivery," Asilomar Conference on Signals, Systems, and Computers (Invited), pp. 930 - 933, Pacific Grove, CA, November 4-7, 2012.

N. Golrezaei, A.G. Dimakis, and A.F. Molisch, "Device-to-Device Collaboration through Distributed Storage," Global Communications Conference (GLOBECOM), pp. 2397 - 2402, Anaheim, CA, December 3-7, 2012.

N. Golrezaei, K. Shanmugam, A.G. Dimakis, A.F. Molisch, and G. Caire, "Wireless Video Content Delivery through Coded Distributed Caching," IEEE International Conference on Communications (ICC), pp. 2467 - 2472, Ottawa, ON, June 10-15, 2012.

N. Golrezaei, A.G. Dimakis, and A.F. Molisch, "Base Station Assisted Device-to-Device Communications for High-Throughput Wireless Video Networks," ICC'12 WS-ViOpt, pp. 7077 - 7081, Ottawa, ON, June 10-15, 2012.

N. Golrezaei, A.G. Dimakis, and A.F. Molisch, "Wireless Video Content Delivery through Distributed Caching and Peer-to-Peer Gossiping," Asilomar Conference on Signals, Systems, and Computers (Invited), pp. 1177 - 1180, Pacific Grove, CA, November 6-9, 2011.

N. Golrezaei, P. Mansourifard, and M. Nasiri-Kenari, "Multi-Carrier Based Cooperative Cognitive Network," IEEE Vehicular Technology Conference (VTC), pp. 1 - 5, Yokohama, May 15-18, 2011.

Invited Talks	Optimal Dynamic Pricing for Customers with Heterogeneous Valuation Decay, POMS Annual Meeting, Washington D.C., May 2015.
	Auctions with Dynamic Costly Information Acquisition, INFORMS Annual Meeting, San Francisco, California, November 2014.
	Dynamic Mechanisms with Costly Information Acquisition, INFORMS Annual Meeting, Minneapolis, Minnesota, October 2013.
	Real-time Optimization of Personalized Assortments, ACM Conference on Electronic Commerce (EC), Philadelphia, Pennsylvania, June 2013.
	FemtoCaching: Wireless Video Content Delivery through Distributed Caching Helpers, International Conference on Computer Communications (INFOCOM) Conference, Orlando, Florida, March 2012.
Teaching Experiences	Teaching Assistant, Operations Management, University of Southern California, Spring 2015.
	Teaching Assistant, Signals and Systems, Sharif University of Technology, 2009-2010.
	Teaching Assistant, Control Systems, Sharif University of Technology, 2007.
Referee Services	Production and Operations Management, International World Wide Web Conference (WWW), Web and Internet Economics (WINE), International Symposium on Algorithmic Game Theory (SAGT), IEEE Transactions on Information Theory, IEEE TWireless, IEEE Transactions on Vehicular Technology, ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), IEEE International Conference on Communications (ICC)
Programming Skills	C++ (Data Structures), Matlab, R, SQL, HTML, CSS, PHP, JAVAScript, JQuery
References	- Prof. Hamid Nazerzadeh Bridge Memorial Hall - BRI 401B Department of Data Sciences and Operations Marshall School of Business Los Angeles, CA 90089 email: hamidnz@marshall.usc.edu

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- Prof. Ramandeep S. Randhawa
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