Azarakhsh Malekian

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Academic Appointments				
	• Massachuset	 Postdoctoral Fellow Massachusetts Institute of Technology, Cambridge, MA, Sep. 2011-August 2013. Northwestern University, Evanston, IL, Jan. 2010-August 2011. 		
Education	Ph.D. in Comput	Ph.D. in <i>Computer Science</i> . 2005-Dec.2009, University of Maryland, College Park.		
Journal Papers	 Durnal Papers J1 Network Security and Contagion. D. Acemoglu, A. Malekian, and A. Ozdaglar, "Journal of Economic Theory", Volume 166, 2016, Pages 536-585. 			
	Utility Function S. Alaei, K. Ja	Equilibrium in Two sided Matching Markets with General tions. An and A. Malekian. Desearch", Volume 64, 2016, Pages 638-645.		
	J. Hartline, R.	entive Compatibility via Matchings. Kleinberg, and A. Malekian. Economics Behavior", Volume 92, July 2015, Pages 401-429.		
	S. Khuller, Y.	gorithms for Data Migration. Kim, A. Malekian. " 63(1-2), pages 347-362, 2012.		
	S. Khuller, A.	t to Fill: The Gas Station Problem. Malekian, and J. Mestre. ctions on Algorithms" 7(3): 36, 2011.		
	A. Deshpande	ient Monitoring in Sensor Networks. , S. Khuller, A. Malekian, and M. Toossi. " 59(1), pages 94-114, 2011.		
	S. Alaei, A. M	Sampling Auctions for Digital Goods. alekian, and A. Srinivasan. ctions on Economics and Computation", Volume 2, Issue 3, July 2014		
Under Review/Worki Papers	ng D. Acemogl	Denstrained Network Formation . u, A. Makhdoumi, A. Malekian, and A. Ozdaglar, <i>l Economics Behavior</i> ", accepted with minor revision, 2016, revision bmitted.		
	Congestion D. Acemogl	nal Braess' Paradox: The Effect of Information on Traffic n. u, A. Makhdoumi, A. Malekian, And A. Ozdaglar, ad review, "Operations Research", 2017.		

	• Efficient Computation of Optimal Auctions via Reduced Forms. S. Alaei, H. Fu, N. Haghpanah, J. Hartline, A. Malekian, accepted with minor revision, "Mathematics of Operations Research", 2017.
	• Strategic Dynamic Pricing with Network Externalities. A. Makhdoumi, A. Malekian, and A. Ozdaglar, To be submitted, 2017.
	• A Dynamic Model of Crowdfunding. S. Alaei, A. Malekian, and M. Mostagir, To be submitted, 2017.
Awards & Honors	 Best Student Paper Award, WINE 2009, An Analysis of Troubled Assets Reverse Auction. Bronze Medal, National Olympiad in Informatics, Iran, 1997. Ranked 1st, National Scientific Olympiad in Computer Science and Engineering, Iran, 2002. Ranked 1st, National Graduate Entrance Examination (Software Engineering), Iran, 2002.
Conferences Proceed- ings(Refereed)	 C1 A Dynamic Model of Crowdfunding, S. Alaei, A. Malekian, and M. Mostagir. "ACM Conference on Economics and Computation" (EC), 2016.
(C2 Privacy-Constrained Network Formation. with D. Acemoglu, A. Makhdoumi, and A. Ozdaglar. "ACM Performance Evaluation Review" (PER), Vol. 43, No. 3, December 2015.
	C3 Competitive Equilibrium in Electricity Markets with Heterogeneous Users and Price Fluctuation Penalty, with A. Ozdaglar, E. Wei. "Conference on Decision and Control" (CDC), 2014.
(C4 Competitive Equilibrium in Electricity Markets with Heterogeneous Users and Ramping Constraints, with A. Ozdaglar, E. Wei. "Allerton Conference", 2013.
(C5 Bayesian Mechanism Design for Budget-Constrained Agents. Shuchi Chawla, David Malec, Azarakhsh Malekian. "ACM conference on Electronic Commerce" (EC), pages 253-262, 2011.
(C6 Baysian Algorithmic Mechanism Design: Multi Dimensional Setting. Jason Hartline, Robert Kleinberg, Azarakhsh Malekian. "Symp. on Discrete Algorithms" (SODA), pages 734-747, 2011.
(C7 A Novel Approach for Propagating Distrust. Christian Borgs, Jennifer Chayes, Adam Kalai, Azarakhsh Malekian, Moshe Tennenholtz. "Workshop on Internet & Network Economics" (WINE), pages 87-105, 2010.
(C8 Balanced Allocation with Succinct Representation. Saeed Alaei, Azarakhsh Malekian, Ravi Kumar, Erik Vee. "ACM SIGKDD conference on knowledge discovery and data mining" (KDD), pages 523-532, 2010.
(C9 An Analysis of Troubled Assets Reverse Auction. Saeed Alaei, Azarakhsh Malekian. "Workshop on Internet & Network Economics" (WINE), pages 398-409, 2009. Recipient of the Best Student Paper Award.

	 C10 Online Allocation of Display Advertisements subject to Advanced Sales Contracts. Saeed Alaei, Esteban Arcaute, Samir Khuller, Wenjing Ma, Azarakhsh Malekian, John A. Tomlin. "International Workshop on Data Mining and Audience Intelligence for Advertising" (ADKDD), pages 69-77, 2009. C11 On Random Sampling Auctions for Digital Goods. Saeed Alaei, Azarakhsh Malekian, Aravind Srinivasan.
	 "ACM conference on Electronic Commerce" (EC), pages 187-196, 2009. C12 Query Rewrites for Keyword-based Advertising. Chi Chao Chang, Ravi Kumar, Azarakhsh Malekian, Grant Wang. "ACM Conference on Electronic Commerce" (EC), pages 10-19, 2008.
	C13 Energy Efficient Monitoring in Sensor Networks. Amol Deshpande, Samir Khuller, Azarakhsh Malekian, Mohammad Toossi. "Latin American Theoretical Informatics" (LATIN), pages 436-448, 2008.
	 C14 To Fill or not to Fill: The Gas Station Problem. Samir Khuller, Azarakhsh Malekian, Julian Mestre. "European Symp. on Algorithms" (ESA), pages 534-545, 2007.
	C15 Improved Algorithms for Data Migration. Samir Khuller, Yoo Ah Kim, Azarakhsh Malekian. "Workshop on Approximation Algorithms" (APPROX), pages 164-175, 2006.
Patents	 Optimizing Query Rewrites for Keyword-based Advertising. Chi Chao Chang, Ravi Kumar, Azarakhsh Malekian, Grant Wang. Document Number # 20090216710. Recommendation Ranking Systems with Distrust, C. H Borgs, J. T. Chayes, A. T Kalai, A. Malekian and M. Tennenholtz, US Patent, Patent number: 9152969, Publication date: 2015/10/6.
Industry Experience	 Research Intern. Microsoft Research, New England Supervisor: Adam Kalai, Summer 2009. Applied Research Intern. Yahoo! Inc Supervisor: Ravi Kumar, Summer 2008. Applied Research Intern. Yahoo! Inc Supervisor: Ravi Kumar and Chi Chao chang, Summer 2007.
Teaching Experience	 Instructor: Operations Management(Undergrad) Rotman Commerce, University of Toronto, Fall 2015, Fall 2016. Advanced Topics in Management Science:Modeling Interactoins on Networks (PhD) Rotman School of Management, Spring 2015. Management Science Modeling with Spreadsheets (Undergrad) Rotman Commerce, University of Toronto, Fall 2014. Game Theory in Operations (PhD) Rotman School of Management, Spring 2014. Statistics for Management (MBA) Rotman School of Management, Fall 2013.

Teaching Assistant: University of Maryland

Invited Seminars	• "Multidimensional Bayesian Mechanism Design via Reduction", University of Southern California, Marshall School of Business, Feb. 2017.		
	• "A Dynamic Model of Crowdfunding", University of Toronto, EE department, Feb. 2016.		
	• "Network Security and Contagion", IPAM, Workshop on "systemic Risk and Financial Networks", 2015.		
	• "Network Security and Contagion", McMaster University, 2014.		
	• Yale University, 2013.		
	• Rotman School of Management, University of Toronto, 2013.		
	• Rensselaer Polytechnic Institute, 2013		
	• University of Minnesota, Twin cities, 2013		
	• Krannert School of Management, Purdue University, 2013		
	• Yahoo Research, Santa Clara, 2013.		
	• Harvard University. 2012		
	• Massachusetts Institute of Technology, 2011		
	• University of Michigan, Ann Arbor. 2011		
	 University of Wisconsin, Madison. 2010 Toyota Institute of Technology, Chicago. 2010 		
	• Microsoft Research, WA, 2010		
	• Yahoo Research NY. 2010		
		• Cornell University. 2010	
Professional	• Committee Member:		
Activities	 26th International World Wide Web Conference, Perth, Australia, 2017. 18th ACM conference on Economics and Computation (EC), 2017. 11th Ad-Auctions workshop, Oregon, 2015. Conference on Web and Internet Economics(WINE), China, 2014. ACM conference on Electronic Commerce (EC), Spain. 2012. Ad-Auction workshop (AAW), Spain. 2012. Workshop on Bayesian Mechanism Design, Stanford, CA. 2011. Workshop on the Economics of Web Search and Social Networks, Italy. 2013. 		
	Cluster Chair:		
	 Informs International Conference 2016. "Mechanism design and game theory" cluster co-chair. 		

• Data Structures, Design and Analysis of Algorithms, Algorithms, Discrete Mathematics, Programming Languages Concepts, Introduction to Numerical Analysis

- Session Chair:
 - Informs International Conference, Hawaii, 2016.
 - Informs, Phoenix, Arizona. 2012.
 - IFORS, Barcelona, Spain, 2014.
 - ISMP, Pittsburgh, US, 2015.

- **Referee**: 2017 MSOM Service SIG conferenc, Econometrica, Journal of Economic Theory, Operations Research, Management Science, Mathematics of Operations Research, Networks, Games and Economics Behavior, Review of Industrial Organization, Transactions on Economics and Computation, Algorithmica, APPROX, ESA, SODA, STOC, EC, WINE, LATIN, SAGT, WWW, ICALP.
- **Co-organizer**: Seminar on Social Networks, Big Data, Influence, and Decision-Making, University of Toronto, Fall 2014.