Arash Asadpour

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Research interests	> Applications: Online Advertising, Online Retailing, Advertising in Social Networks, Matching and Search Markets, Revenue Management		
	\diamond Methodologies: Mathematical Programming, Sto	chastic Optimization, Online Optimization	
Education	◊ Stanford University, Stanford, CA Ph.D. in Management Science and Engineering, Major: Operations Research. Thesis Title: Roun	September 2005–July 2010. ding by Sampling. Advisor: Amin Saberi.	
	 ◇ Sharif University of Technology, Tehran, Ira B.Sc. in Computer Engineering, September 200 	an 1–July 2005.	
PROFESSIONAL	L & Assistant Professor		
	New York University - Stern School o Topphing Experience:	Business September 2011–present.	
	• NYU Stern: Decision Models & Analytics	Undergraduate 2011-present	
	• NYU Stern: Decision Models & Analytics	, MBA, 2011–present.	
	• NYU Stern: Linear and Non-linear Optim	ization, Ph.D., 2011–present.	
	· Sharif University of Technology: Rande	omized Algorithms, M.Sc. and Ph.D., 2011.	
Honors and Awards	\diamond Best Paper Award, 21^{st} ACM-SIAM Symposium	on Discrete Algorithms (SODA), 2010.	
	\diamond Dantzig-Lieberman Operations Research Fellows	hip, Stanford University, 2008 and 2009.	
	\diamond Stanford School of Engineering Fellowship, 2005-	-2006.	
	$\diamond~1 \mathrm{st}$ Rank, Iran's National Graduate Entrance Exa	m in Computer Engineering, Iran, Spring 2004.	
	♦ 7th Rank, Iran's National Undergraduate Entran 350,000 participants, Summer 2001.	nce Exam for Engineering among more than	
	\diamond Silver Medal, 9th and 10th Iranian National Olym	piad in Informatics, Summer 1999 and 2000.	
Students	♦ Xuan Wang, Ph.D. completion: 2016.		
	♦ Tarek Abdallah, Ph.D. completion: 2018 - exp	pected.	
Organizer	\diamond NYCE 2014: Seventh annual New York Comp	uter Science and Economics Day.	
Patents	\diamond Layerable Auction Mechanisms, with D. Ab	raham and K. Jain. US20090313126A1.	
Selected Invited Talks	◊ Concise Bid Optimization. The University of Chicago Booth School of Busin	ness, November 2017.	
	Rutgers Business School, November 2017. Northwestern University Kellogg School of Mana	gement, November 2017.	
	Columbia Business School, November 2017. Princeton University Operations Research and F Yale School of Management, September 2017.	inancial Engineering, October 2017.	

	\$	Online Resource Allocation with Limited Flexibility. Duke University's Fuqua School of Business, April 2016. Columbia Business School, April 2016.
	\$	Maximizing Stochastic Monotone Submodular Functions. MIT Sloan School of Management, April 2013.
	\$	Rounding by sampling: an O(log n/log log n)–approximation algorithm for ATSP. 21 st International Symposium of Mathematical Programming (ISMP), Berlin, August 2012. Microsoft Research New England, January 2010.
	\$	The Inefficiency Ratio of Stable Equilibria in Congestion Games. 20 th International Symposium of Mathematical Programming (ISMP), Chicago, August 2009.
	\$	Max-min Fair Allocation of Indivisible Goods. IBM Almaden Research Center, May 2008. Microsoft Research Redmond, March 2007.
Journal Publications (Accepted and Under Review)	\diamond	Gamma Analysis: A Study on Online Stochastic Optimization, Under Review in Operations Research.
	\$	Online Resource Allocation with Limited Flexibility , with X. Wang and J. Zhang. 2^{nd} Round of Review in MANAGEMENT SCIENCE.
	\$	Concise Bid Optimization Strategies with Multiple Budget Constraints , with M. Bateni, K. Bhawalkar, and V. Mirrokni. 2 nd Round of Review in MANAGEMENT SCIENCE.
	\$	Large-Scale Bundle Size Pricing: A Theoretical Analysis , with Tarek Abdallah and Josh Reed. 2 nd Round of Review in MANAGEMENT SCIENCE.
	\$	An O(log n/log log n)–Approximation Algorithm for the Asymmetric Traveling Salesman Problem, with M. Goemans, A. Madry, S. Oveis Gharan, and A. Saberi. OPER- ATIONS RESEARCH, 2017.
	\$	Maximizing Stochastic Monotone Submodular Functions, with H. Nazerzadeh, MAN-AGEMENT SCIENCE, 2016.
	\$	Santa Claus Meets Hypergraph Matchings, with U. Feige and A. Saberi, in ACM TRANSACTIONS ON ALGORITHMS, 2012.
	\$	An Approximation Algorithm for Max-min Fair Allocation of Indivisible Goods, with A. Saberi, in SIAM JOURNAL OF COMPUTING, 2010.
Peer- Reviewed Conference Publications	\$	Concise Bid Optimization Strategies with Multiple Budget Constraints, with M. Bateni, K. Bhawalkar, and V. Mirrokni. In the 10 th Conference on Web and Internet Economics [WINE], 2014.
	\$	An O(log n/log log n)-Approximation Algorithm for the Asymmetric Traveling Salesman Problem, with M. Goemans, A. Madry, S. Oveis Gharan, and A. Saberi. In the 21 st ACM-SIAM Symposium on Discrete Algorithms [SODA], 2010. Winner of the Best Paper Award.
	\$	On the Inefficiency Ratio of Stable Equilibria, with A. Saberi. In the 5^{th} Conference on Web and Internet Economics [WINE], 2009.
	\$	Stochastic Submodular Maximization, with H. Nazerzadeh and A. Saberi. Preliminary results appeared in the 4^{th} Conference on Web and Internet Economics [WINE], 2008.
	\$	Santa Claus Meets Hypergraph Matchings, with U. Feige and A. Saberi. In the 12^{th} Conference on Approximation Algorithms for Combinatorial Optimization [APPROX], 2008.
	\diamond	An Approximation Algorithm for Max-Min Fair Allocation of Indivisible goods, with A. Saberi. In the 39 th ACM Symposium on Theory of Computing [STOC], 2007.

WORKING

♦ **Revenue Management with Bundles**, with T. Abdallah and J. Reed.

- PAPERS \diamond A New Approximation Algorithm for Online Stochastic Matching, with A. Saberi.
 - ◊ Correlation Decay in Entropy Rounding of LP Relaxations.
 - ♦ **Two-sided Online Stochastic Matching**, with A. Saberi.
 - ◊ Two-dimensional (Frictional) Matching Markets: Equilibrium, Homophily and Mixing, with D. Acemoglu, C. Borgs, J. Chayes, and A. Saberi.