Mehrnoosh Shafiee

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EDUCATION	Columbia University Ph.D., Department of Electrical Engineering Thesis Title: "Resource-allocation in large-scale distribut Adviser: Prof. Javad Ghaderi	Jan.2016-present ed systems"
	 GPA: 4.16/4.00 Columbia University M.Sc., Department of Electrical Engineering Adviser: Prof. Javad Ghaderi GPA: 4.23/4.00 	Sep.2014-Jan.2016
	Sharif University of Technology B.Sc., Department of Electrical Engineering Minor, Department of Physics Thesis Title: "Scheduling in LTE systems" Adviser: Prof. Farid Ashtiani GPA: 18.02/20	Sep.2009-Jul.2014
HONOR AND AWARDS	 Ranked 1st in Ph.D. Qualifying Exam, Electrical Engineering Department, Columbia University. Columbia University Masters Award of Excellence. Recipient of ACM SIGARCH, SPAA Student Travel Grant. Recipient of IEEE INFOCOM Student Travel Grant. Selected to participate Grad Cohort Workshop CRA-W. Full-Funded Summer Internship by Hong Kong University of Science and Technology (HKUST). Gold Medal in International Olympiad on Astronomy and Astrophysics. Gold Medal in National Olympiad on Astronomy, Iran. Iranian National Elite Foundation Level One Scholarship, Iran. 	
RESEARCH INTERESTS	I am broadly interested in the analysis and design of resource allocation algorithms for large-scale distributed systems, instances include: flow scheduling and load bal- ancing in datacenter networks, job scheduling and virtual machine packing in cloud systems.	
	 Other Research interests include Game Theory and Social Networks Wireless and Communication Networks 	

• Deep Learning and Natural Language Processing

PUBLICATIONS	 M. Shafiee, J. Ghaderi, "A Simple Congestion-Aware Algorithm for Load Balancing in Datacenter Networks", Proceedings of IEEE INFOCOM 2016-The 35th Annual IEEE International Conference on Computer Communications, pg. 1-9. M. Shafiee, J. Ghaderi, "A Simple Congestion-Aware Algorithm for Load Balanc- ing in Datacenter Networks", Accepted in IEEE/ACM Transactions on Networking, 2017. M. Shafiee, J. Ghaderi, "Scheduling Coflows in Datacenter Networks: Improved Bound for Total Weighted Completion Time", Proceedings of the 2017 ACM SIG- METRICS/International Conference on Measurement and Modeling of Computer Systems. p.g 29-30. M. Shafiee, J. Ghaderi, "Brief Announcement: A New Improved Bound for Coflow Scheduling", Proceedings of the 29th ACM Symposium on Parallelism in Algorithms and Architectures 2017 (SPAA'17), pg. 91-93. M. Shafiee, J. Ghaderi, "An Improved Bound for Minimizing the Total Weighted Completion Time of Coflows in Datacenters", Submitted to IEEE/ACM Transactions on Networking, 2017. 	
WORK AND TEACHING EXPERIENCES	 Research Intern at OATH, Summer 2017. We studied a specific NLP problem and submitted the result as a research paper to a conference. Teaching Assistant for the course "Network Algorithms and Dynamics", Electrical Engineering Department, Columbia University, Spring 2015 and 2016 Teaching Assistant for the course "Communication Networks", Electrical Engineering Department, Columbia University, Fall 2014 and 2015 Research Intern in Center for Wireless Information Technology (CenWIT), Hong Kong University of Science and Technology (HKUST), Summer 2013 Intern in Iran Telecommunication Research Center, Summer 2012 Teaching topics in Astronomy and Astrophysics Olympiad, Iran, 2009-2013 	
COMPUTER SKILLS	MATLAB, R, C++ Tensorflow, Keras Windows, Linux L ^A T _E X	
GRADUATE COURSES	Topics in Queuing Theory (IEOR E8100), [current semester] Analysis of Algorithm II (COMS E6232), [4.00/4.00] Scheduling Algorithms (IEOR E8100), [3.66/4.00] Optimization I (IEOR E6613), [3.66/4.00] Optimization II (IEOR E6614), [4.33/4.00] Stochastic Modeling I (IEOR E6711), [4.00/4.00] Computer Communication Network (ELEN E6761), [4.33/4.00] Convex Optimization for EE (EEOR E4650), [4.33/4.00] Analysis of Algorithm I (CSOR W4231), [4.00/4.00] Probability Theory (MATH W4155), [4.33/4.00] Network Algorithm and Dynamics (ELEN E6909), [4.33/4.00] Foundation of Graphical Model (STAT G6509), [3.66/4.00] Machine Learning (COMS W4771), [4.33/4.00]	