Ramin Raziperchikolaei

Rakuten, 800 Concar Dr San Mateo, CA 94402		Email: ramin.raziperchikola@rakuten.com Website: http://graduatestudent.ucmerced.edu/rraziperchikolaei	
RESEARCH INTERESTS	 ♦ Machine Learning, E ♦ Continuous/Discrete ♦ Computer Vision, De 	Machine Learning, Data Mining, Big Data Continuous/Discrete Optimization Computer Vision, Deep Learning	
PROFESSIONAL EXPERIENCE		esent at Rakuten, San Mateo, CA, USA. nachine learning and its applications.	
		2019	
	Graduate Research Role: research on a fast image retrieva equation in ODEs.	Assistant, University of California Merced, Merced, CA, USA. machine learning and computer vision topics such as binary hashing for l, low dimensional representation of images, and learning the governing	
	♦ Aug 2010 to Aug	2013	
	Graduate Research Role: developing techniques such as	Assistant, Sharif University of Technology, Tehran, IRAN. new object tracking and classification methods using machine learning clustering, semi-supervised learning, online learning, etc.	
EDUCATION			
	Ph.D of Computer Advisor: Prof. Pau Thesis: Block Co	Science at University of California Merced, Merced, CA, USA. al P. Maglio ordinate Descent Proximal Method for ODE Estimation and Discovery.	
	◊ 2010 - 2012:	v	
	M.Sc of Artificial I Advisor: Prof. Ma Thesis: Object T	ntelligence at Sharif University of Technology, Tehran, Iran. nsour Jamzad racking using Online Semi-Supervised Learning.	
	◊ 2006 - 2010:		
	B.Sc of Computer Advisor: Prof. Mo Thesis: Qualitati	Engineering at Iran University of Science and Technology, Tehran, Iran. hammad Reza Kangavari ve and Quantitative Evaluation of Intelligent Systems	
PUBLICATIONS	♦ Ramin Raziperchi simultaneous filterin Machine Learning (1)	kolaei and H. S. Bhat. A block coordinate descent proximal method for g and parameter estimation. In <i>Thirty-sixth International Conference on</i> <i>CML 2019</i> , Long Beach, CA, jun 2019	
	♦ Ramin Raziperchi machines for fast im China, 2017b	kolaei and M. Á. Carreira-Perpiñán. Learning circulant support vector age search. In <i>IEEE Int. Conf. Image Processing (ICIP 2017)</i> , Beijing,	
	 Ramin Raziperchi Optimization vs dive 2017a 	kolaei and M. Á. Carreira-Perpiñán. Learning supervised binary hashing: rsity. In <i>IEEE Int. Conf. Image Processing (ICIP 2017)</i> , Beijing, China,	
	♦ Ramin Raziperchi hash functions: Prun 2016), pages 1173–1	kolaei and M. Á. Carreira-Perpiñán. Learning independent, diverse binary ing and locality. In <i>Proc. of the 17th IEEE Int. Conf. Data Mining (ICDM</i> 178, Barcelona, Spain, 2016b	

- ◊ Ramin Raziperchikolaei and M. Á. Carreira-Perpiñán. Optimizing affinity-based binary hashing using auxiliary coordinates. In Advances in Neural Information Processing Systems (NIPS), pages 640–648, 2016a
- ◊ M. Á. Carreira-Perpiñán and Ramin Raziperchikolaei. An ensemble diversity approach to supervised binary hashing. In Advances in Neural Information Processing Systems (NIPS), pages 757–765, 2016

- ♦ M. Á. Carreira-Perpiñán and **Ramin Raziperchikolaei**. Hashing with binary autoencoders. In Proc. of the 2015 IEEE Computer Society Conf. Computer Vision and Pattern Recognition (CVPR'15), pages 557–566, Boston, MA, 2015a
- ♦ Ramin Raziperchikolaei and M. Jamzad. Visual tracking using d2-clustering and particle filter. In Signal Processing and Information Technology, IEEE International Symposium on (ISSPIT 2012), pages 230–235, Dec 2012
- ♦ A. Bagheri-Khaligh, Ramin Raziperchikolaei, and M. E. Moghaddam. A new method for shot classification in soccer sports video based on svm classifier. In Image Analysis and Interpretation (SSIAI), 2012 IEEE Southwest Symposium on, pages 109–112, April 2012
- POSTERS AND ◊ Ramin Raziperchikolaei and M. Á. Carreira-Perpiñán. Optimizing circulant support vector machines: the exact solution. In OPT 2017: Optimization for Machine Learning at NIPS, Long Beach, CA, Dec 2017c
 - ♦ M. Á. Carreira-Perpiñán and **Ramin Raziperchikolaei**. Learning supervised binary hashing without binary code optimization. In Nearest Neighbors for Modern Applications with Massive Data: An Age-old Solution with New Challenges at NIPS, Long Beach, CA, Dec 2017b
 - ♦ M. A. Carreira-Perpiñán and **Ramin Raziperchikolaei**. Learning supervised binary hashing without binary code optimization. In Bay Area Machine Learning Symposium (BayLearn 2017), Cupertino, CA, Apple, Oct 2017a
 - ♦ Ramin Raziperchikolaei and M. A. Carreira-Perpiñán. Optimizing affinity-based binary hashing using auxiliary coordinates. In Bay Area Machine Learning Symposium (BayLearn 2016), LinkedIn Campus, Oct 2016e
 - ♦ Ramin Raziperchikolaei and M. Á. Carreira-Perpiñán. Optimizing affinity-based binary hashing using auxiliary coordinates. In Advances in non-convex analysis and optimization at ICML, New York, NY, June 2016d
 - ♦ Ramin Raziperchikolaei and M. Á. Carreira-Perpiñán. Hashing with binary autoencoders. In Optimization Methods for the Next Generation of Machine Learning at ICML, New York, NY, June 2016c
 - ♦ Ramin Raziperchikolaei and M. Á. Carreira-Perpiñán. Deep learning with auxiliary coordinates, with an application to fast image search. Invited extended abstract, In INFORMS 2015 Annual Meeting, session on Distributed and Parallel Optimization, Nov 2015b
 - ♦ Ramin Raziperchikolaei and M. Á. Carreira-Perpiñán. Hashing with binary autoencoders. In **INFORMS** Workshop on Data Mining and Analytics, Nov 2015a
 - ♦ M. Á. Carreira-Perpiñán and Ramin Raziperchikolaei. An ensemble diversity approach to binary hashing. In Bay Area Machine Learning Symposium (BayLearn 2015), Rosewood Sand Hill, CA, Oct 2015b
 - ♦ M. A. Carreira-Perpiñán and **Ramin Raziperchikolaei**. Hashing with binary autoencoders. In Bay Area Machine Learning Symposium (BayLearn 2014), UC Berkeley Art Museum, Oct 2014
- SKILLS ♦ **Programming Languages:** Python, C/C++.
 - ♦ Frameworks: Hadoop, MapReduce, MatConvNet, TensorFlow.
 - ♦ Statistical Software : MATLAB.

Graduate Teaching Assistant at University of California, Merced: TEACHING ASSISTANT

- ♦ Algorithm Design and Analysis, Spring 2018. Instructor: Prof. Sungjin Im
 - ◇ Algorithm Design and Analysis, Spring 2015. Instructor: Prof. Miguel Á. Carreira-Perpiñán
 - ◇ Algorithm Design and Analysis, Spring 2014. Instructor: Prof. Miguel Á. Carreira-Perpiñán
 - ◇ Introduction to Computer Science and Engineering 1, Fall 2013. Instructor: Chi Yang Leung

Graduate Teaching Assistant at Sharif University, Tehran, Iran:

- ◊ Image Processing, Spring 2012. Instructor: Prof. Mansour Jamzad
- ♦ Neural Networks and Fuzzy Systems, Spring 2012. Instructor: Prof. Mehdi Jalili.
- ◊ Machine Vision, Fall 2011. Instructor: Prof. Mansour Jamzad.

EXTENDED ABSTRACTS

TALKS	◊ Oct 2017: "Learning Binary Hash Functions: Optimisation- and Ensemble-based Approaches", Electrical Engineering and Computer Science Seminar, UC Merced, CA, USA.		
	◊ Nov 2015: "Learning Binary Hash Functions: An Optimization Approach", Electrical Engineer- ing and Computer Science Seminar, UC Merced, CA, USA.		
	◊ Nov 2015: "Deep learning with auxiliary coordinates, with an application to fast image search", INFORMS Annual Meeting, Philadelphia, PA, USA		
	◊ Nov 2015: "Hashing with binary autoencoders", INFORMS Workshop on Data Mining and Analytics, Philadelphia, PA, USA.		
	◊ Sep 2015: "An Ensemble Diversity Approach to Binary Hashing", Bay Area Machine Learning Symposium, Menlo Park, CA, USA.		
	\diamond Oct 2014: "Hashing with binary autoencoders", Bay Area Machine Learning Symposium, UC Berkeley, CA, USA.		
	◊ Sep 2014: "Hashing with binary autoencoders", Electrical Engineering and Computer Science Seminar, UC Merced, CA, USA.		
	◊ Oct 2012: "An overview of the online boosting methods for object tracking" lecture for Machine Vision course, Sharif University, Tehran, Iran		
PROFESSIONAL SERVICE	Reviewer for the following conferences:		
	\diamond International Conference on Machine Learning (ICML 2018)		
	\diamond Computer Vision and Pattern Recognition (CVPR 2016, 2017, and 2019)		
	\diamond European Conference on Computer Vision (ECCV 2016 and 2018)		
	\diamond International Conference on Computer Vision (ICCV 2017).		
AWARDS	\diamond Bobcat fellowship from UC Merced for the summer of 2015, 2016 and 2017.		
	\diamond Travel fellowship from UC Merced for the summer of 2015 and 2016.		
	\diamond ICML travel award, 2016.		
	 Ranked 61st among more than 4000 Participants in National Entrance Exam of universities for M.Sc. of Artificial Intelligence 2010. 		

REFERENCES Available upon request.