Asghar Dehghani

Contact Information	801 Leroy Place, PO Box 2574 New Mexico Institute of Mining and Technology Socorro, NM 87801	Voice: (915) 227-0397 Email: <u>Behdad@nmt.edu</u> <u>Behdaddeh@gmail.com</u>
Education	 M.Sc. in Computer Science, New Mexico Institute of Mining and Technology USA Started: Jan 2010-Present Thesis Title: Improving the Accuracy of Machine Learning Based Localization in Wireless Sensor Networks 	
	• B.Sc. in Computer Engineering , Shahroud Univ	versity Of Technology Iran 2005 - 2009
Research		
Interests	 Machine Learning Theory Computational learning theory (sample complexity and curse of dimensionality) Tikonov regularization and over-fitting problem in learning machines Semi-supervised learning Non-parametric generative methods Inverse Problems Optimization Applications of Machine Learning and Pattern Recognition NLP Computer vision, medical imaging Bioinformatics, medical knowledge discovery Machine learning-based algorithms in wireless networking 	
Publication	 A.Dehghani, J.Crow, "A Hybrid Regularization Term toward Learning with Noisy Data", In preparation for submission J. Zheng, A. Dehghani, R. Lee, "Range-free Localization in Wireless Sensor Networks with Neural Network Ensembles" Expert Systems with Applications Journal (to be appeared) A.Dehghani, J. Zheng, "A New Method to Generate Virtual Samples for Solving Small Sample Set Problems", accepted, ICMLA 2011 J. Zheng, A. Dehghani, "LNNE: A Neural Network Ensembled-Based Localization Algorithm in Wireless Sensor Networks" International Conference on Parallel and Distributed Computing and Systems, 2011 Dallas A.Dehghani, O.Oduba, R.Reiss, "Cytoinformatic Investigation of Metabolic Dysfunction: A Machine Learning Approach to Identify Non-Coding RNA Rich Regions", a poster on NMBIS 2011 - New Mexico Bioinformatics and Science Symposium, Santa Fe NM 	
Professional Experience	 National Center for Genome Resources (NCGR: <u>http://www.ncgr.org/</u>) Santa Fe, USA Research Intern, Summer 2011 Applying statistical machine learning techniques in bioinformatics Sequence alignment algorithms and short-read sequencing analysis Developing bioinformatics tools 	

	Graduate Research Assistant Jan 2010- Fresent	
	 Machine learning theory (Regularization theory and over-fitting problem, sample complexity and curse of dimensionality) 	
	 complexity and curse of dimensionality) Applied machine learning (Bioinformatics, localization in wireless sensor networks, medical imaging) 	
	 Andishe-Pardaz Company, Shiraz, Iran Senior Programmer, Data Analyst 2005-2009 (Part-time) 	
	• Software developer	
	• Principle data scientist (data mining and machine learning) 2008-2009	
	Summary of projects:	
	 Implementing the Shiraz University of Medical Sciences global database of otology surgery (FOSDB) system for purpose of knowledge discovery (risk factor discovery, Predictive model construction) Contributing in research and implementing of an OCR engine for Persian Language (machine learning and computer vision) 	
	 Implementing a data warehousing and reporting system for Middle-East Heart Committee in Iran-Shiraz (<u>http://www.icrj.ir/UI/Pblc/Home.aspx</u>) 	
	 Pars-System Consultants, Tehran, Iran Software Developer Intern Summer 2008 Applying OLAP techniques for business intelligence 	
	Applying data mining techniques for costumer behavioral model estimation	
	• Supported as research assistant at New Mexico Institute of Technology (2010-2011)	
Honors and	Travel grant award by New Mexico Institute of Technology (twice)	
Awards	• Second ranked student in my undergraduate study	
	• Programming Languages (Java, C#.Net , Perl, C/C++ , Delphi, Matlab)	
Skills	• Web technologies (JSP, ASP, Ajax, SOA, PHP)	
	• Tools (WEKA, Rational Rose, Hadoop)	
	• Databases (DB2, SQLServer, MySQL)	
	 Dr. Andrew Sung, Professor, Computer Science Department, New Mexico Institute of Mining and Technology, Phone: (575) 835-5949, Email: <u>sung@cs.nmt.edu</u> 	
	 Dr. Mehdi Pirooznia, M.D., Ph.D., Research Associate Faculty, The Johns Hopkins University, School of Medicine, Department of Psychiatry, Phone: (410) 502-5740, Email: <u>mpirooz1@jhmi.edu</u> 	
References	 Dr. John A. Crow, Vice President of Informatics, National Center of Genome Resources (NCGR), Santa Fe, New Mexico, Phone: (800) 450-4854, Email: jac@ncgr.org 	
	 Dr. Rebecca A. Reiss, Associate Professor, Biology Department, New Mexico Institute of Mining and Technology, Phone: (575) 835-5347, Email: <u>reiss@nmt.edu</u> 	

• Department of Computer Science, New Mexico Institute of Mining and Technology Graduate Research Assistant Jan 2010- Present