Soroush Mehri

Contact Information

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Research Interests

⋄ Machine Learning
⋄ Artificial Intelligence
⋄ Computer Vision
⋄ Data Mining
⋄ Cognitive Science
⋄ Statistical Modeling

Education

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
B.S., Computer Engineering   2010 – 2014 (Expected)
(Rank 2 among all Iranian Universities)

- Cumulative Grade Average till now for:
  Total 105 units: **17.91**/20   ($\approx$ **3.80**/4)
  Major related courses: **18.89**/20   ($\approx$ **3.94**/4)
  Last year courses: **19.26**/20   ($\approx$ **3.97**/4)
- Elective Courses: *Statistical Machine Learning (Graduate Level - ongoing), Data Mining*
- Undergeaduate Project Advisor: Assoc. Prof. Mohammad Mehdi Ebadzadeh
- Research Supervisor: Asst. Prof. Shahram Khadivi

Shahid Ejei High School, Isfahan, Iran
Diploma in Physics and Mathematics Discipline   2006 – 2010

- Cumulative Grade Average: **19.43**/20
- Affiliated with
  the National Organization for the Development of Exceptional Talents **(NODET)**

Honors and Awards

✦ Took **13**th place among 99 participant teams of the 14th International **Data Mining Cup Competition**, Berlin, Germany, 2013.
✦ Ranked in the **top 2% to 5%** students of Computer Engineering Department; consequently, recognized as **Outstanding Student** by the university, 2010 – 2013.
✦ Awarded honorary **direct admission** to graduate school (M.Sc.) of Computer Engineering Department, Amirkabir University of Technology, without taking the national entrance exam for graduate schools as a reward of high academic records and achievements, 2013.
✦ Eligible to choose **second major** due to outstanding performance, 2012.
✦ In the **top 0.2%** in the Nation-wide University Entry Exam among all Iranian Students in Math. & Physics; again, recognized as Outstanding Student, 2010.
✦ Received region-wide award for **admirable innovation** selected by the jury of 10th Khwarizmi Young Award, 2009.

Publications

Conference Publications

1. Boroujerdi, E.G., **Mehri, S.**, Garmaroudi, S.S., Pezeshki, M., Mehrabadi, F.R., Malakouti, S., and Khadivi, S. **"A Study on Prediction of User's Tendency Toward Purchases in Online Websites Based on Behavior Models"**. *Under review*, symposium on *Artificial Intelligence and Signal Processing*, 2013.

2. **Mehri, S.**, Boroujerdi, E.G., and Ebadzadeh M.M. **"Classification Using MLP With Self-Introductory Codes Method"**, 2013. *(In preparation)*

Notable Coursework & Technical Reports

1. **Mehri, S.**, Pezeshki, M., and Gholami, S., "Hierarchical K-Means and Semantic Hashing in the context of Document Retrieval" – project report for "Data Storage and Retrieval" course, Tehran, Iran, 2013. *(English version is in prepration)*

2. **Mehri, S.** and Ghaeini, M.R., "Triangle-based Image Reconstruction using Genetic Algorithm" – "Artificial Intelligence" course, Tehran, Iran, 2013. *(in Persian)*

3. **Mehri, S.** and Pezeshki, M., "An Introduction to Apache HBase", 2012.

Teaching Assistantships

| ⋄ Data Mining (appointed) | Spring '14 | ⋄ Design&Analysis of Algorithms | Spring '13 |
| ⋄ Artificial Intelligence | Fall '13 | ⋄ Data Structures | Fall '12 |

RESEARCH EXPERIENCE	**Industrial/Research Internship:** Design and implementation of a system called *FRNN* under supervision of Dr. Mohammad Mehdi Ebadzadeh in Biocomputing and Fuzzy Systems Laboratory, Summer 2013. An automated time & attendance system using captured videos from surveillance cameras which exploits a novel method for learning phase of neural network-based face recognition. MATLAB (learning and use phases), OpenCV and C++ (image/video preprocessing and use phases), and Qt framework (GUI design) were used. [More on my website]

International Data Mining Competitions: A team-based effort to participate in 14th Data Mining Cup Competition for predicting the probability of purchase of a website visitor based on surfing behavior model, from Spring 2013, which culminated in taking 13th place in mentioned competition. Weka, Java, MATLAB, and MySQL were used. |

WORK EXPERIENCE	Arya Pardazeshgar Rayane Co.: As a part-time Java programmer, from January 2012. My responsibility is to implement pre-defined sections and modules of software(s).

NOTABLE ACADEMIC PROJECTS	**BiEvl:** A generic Evolutionary Algorithm for finding arbitrary binary strings with extremely flexible configuration. (Java)

TSPsolver: Devise and implementation of an application to solve Travelling Salesman Problem using SMA* with Maximum Spanning Tree heuristic. (Java)

GenIm: Triangle-based Image Reconstruction using Genetic Algorithm. (Java)

AUTengine: A document retrieval system using Semantic Hashing in comparison with Hierarchical K-means. (Java, Parallel Colt, and MATLAB)

AUTstack: A Q&A system inspired by StackOverflow site. (Java and Apache HBase)

mArith: Simple programming language. (OCaml)

roDot: Pathfinding in 2D environment for 1D robots using visibility graph. (Java)

WMP: "Worms MyWorld Party", a network-based replica of "Worms World Party" video game. (Java) |

SKILLS AND EXPERTISE	**Proficient in:** Java, MATLAB, Octave, and Weka.

Fairly familiar with: C++, RapidMiner, OpenCV, Qt framework, MATLAB Neural Network Toolbox, MySQL, and MongoDB.

Having experience of working with: R, Python, Parallel Colt, OCaml, and Apache HBase. |

SPOKEN LANGUAGES	⋄ **Persian** native speaker
⋄ **Arabic** familiar
⋄ **English**
TOEFL iBT 102/120   Sep. 14, 2013
Reading **26**/30, *Listening* **28**/30, *Speaking* **24**/30, *Writing* **24**/30
GRE General registered for the November 9, 2013 test. Scores available: 12/20/2013

CERTIFICATES	**Online Courses**	
	⋄ "Machine Learning", Stanford University	**100%**
	⋄ "Web Intelligence and Big Data" *(graduate level)*, TCS Innovation Labs	**78%**
	⋄ "Neural Networks for Machine Learning", University of Toronto	**85.9%**
	⋄ "Algorithms: Design and Analysis, Part 1", Stanford University	**96.1%**
	⋄ "Cryptography I", Stanford University	**92.5/103**
	⋄ "Gamification", University of Pennsylvania	**81.1%**
	Other	
	⋄ "Artificial Neural Networks in Matlab", Electrical Engineering Student Association, Amirkabir University of Technology, 2013.	
	⋄ "Object Oriented Application Development", by the Academic Council of NIIT as **Excellent Student**, September 2007.	

REFERENCES	Shahram Khadivi (Asst. Prof.)	ceit.aut.ac.ir/~khadivi/	khadivi@aut.ac.ir
	Mohammad Mehdi Ebadzadeh (Assoc. Prof.)	ceit.aut.ac.ir/~ebadzadeh/	ebadzadeh@aut.ac.ir
	Alireza Bagheri (Asst. Prof.)	ceit.aut.ac.ir/~bagheri/	ar_bagheri@aut.ac.ir

Official certificates, documents, and other references are available upon request.
More information on ceit.aut.ac.ir/~s.mehri   *Last Upadate: November 23, 2013*