Cognitive Robotics Lab, ECE Department
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Saeedeh Sadeghi

Research Interests

- o Cognitive Neuroscience
- Artificial Intelligence and Machine Learning

Education

2012-Apr.2015 M.S. in Artificial Intellignece, University of Tehran, Tehran, Iran, GPA - 18.16/20.

- Thesis title: Metacognitvie Ability in Substance Abusers
- o Advisors: Dr. Majid Nili Ahmadabadi and Dr. Bahador Bahrami (University College London)

2008–2012 **B.S. in Computer Engineering**, Shiraz University, Shiraz, Iran, GPA: 18.46/20 (Class rank: 1 of 53).

- o 2009-2012, Shiraz University(transferred), Shiraz, GPA 18.53/20
- o 2008-2009, Sharif University of Technology, Tehran, Iran GPA 17.88/20

Diploma in Physics and Mathematics Discipline, Farzanegan High School, Affiliated with the National Organization for Development of Exceptional Talents (NODET), Shiraz, Iran, GPA – 19.79/20 (Class rank: 1 of 18).

Related Coursework

- Graduate Courses: Machine Learning, Pattern Recognition, Game Theory, Advanced Algorithm Design, System Identification, Social Networks Analysis, Bio-computing, Stochastic Processes
- Coursera Online Courses: Introduction to Neuroeconomics: how the brain makes decisions (2014), Statistical Analysis of FMRI data (2014), Computational Neuroscience (2014).
- Auditing Course: Principles of Cognitive Neuroscience (2013), Institute for Cognitive Science Studies (ICSS).

Publications and Working Papers

Working Papers

S. Sadeghi, H. Ekhtiari, MN. Ahmadabadi, B. Bahrami, "Metacognitive Deficiency for Perception But not Memory in Methadone Maintenance Patients", [submitted to Scientific Reports]

A. Shirvani, S. Sadeghi, P. Piray, B. Bahrami, MN. Ahmadabadi; "Effect of Task Representation Medium on Performance in the Iowa Gambling Task"

Conference Presentations

- Nov. 2015 S. Sadeghi, A. Shirvani, P. Piray, B. Rafiee, B. Bahrami, MN. Ahmadabadi, **Effect of Task**Representation Medium on Performance in the Iowa Gambling Task, Poster Presentation,
 International Symposium on Prediction and Decision Making, Tokyo, Japan.
- Sep. 2015 S. Sadeghi, H. Ekhtiari, MN. Ahmadabadi, B. Bahrami, **Domain-Specific Impairment of Metacognitive Ability in Methadone Maintenance Patients**, Oral presentation. 9th International Addiction Science Congress (ASC2015), Tehran, Iran.
- Apr. 2015 S. Sadeghi, B. Bahrami, H.Ekhtiari and MN. Ahamadabadi, **Metacognitive Ability is Subject** to Ego Depletion over Subsequent Tasks, Poster presentation. 6th International Conference of Cognitive Science, Tehran, Iran.

Research and Academic Experience

- May 2015- May Non-resident researcher at School of Cognitive Sciences, Institute for Research in Fundamental Sciences (IPM), Tehran. Mentor: Dr. M. Nili Ahmadabadi.
- Aug. 2015- Nov. Researcher at Computer Vision and Image Processing (CVIP) Lab, Shiraz University center for 2015 Traffic and Transportation studies, Shiraz. Mentor: Dr. Z. Azimifar.
 - 2013-2015 Research Assistant at Cognitive Robotics Lab, University of Tehran.

2010-2014 Teaching Assistant:

- Artificial Intelligence (Fall 2014), Dr. H. Moradi, University of Tehran.
- o Machine Learning (Fall 2013), Dr. M. Nili Ahmadabadi, University of Tehran.
- o Design And Analysis Of Algorithms (Spring 2011), Dr. Z. Azimifar, Shiraz University.
- o Fundamentals of Programming (Python; Fall 2010), Dr. F. Khunjush, Shiraz University.

Selected Projects

- 2014-2016 Masters thesis project: Metacognitive ability in substance abusers.
- 2013–2015 Analysis of human decision making in the Iowa Gambling Task (IGT) using Reinforcement Learning models, Mentor: Dr. Majid Nili Ahmadabadi.
 - 2014 Game theoretic analysis of a two-player group decision making perceptual task following the maximum confidence slating algorithm, Game Theory course project.
 - Design and implementation of an intelligent ghost agent for the Pac-Man game. Implemented agent Ranked 5th in the "Ms Pac-Man vs Ghosts" IEEE competition of Essex university.
- Design and implementation of an intelligent agent for the Dvonn board game. Implemented agent was a **Finalist** in CodeCup Annual Game Programming Competition.

Honors and Awards

- Fall 2016 Fully funded PhD admission to Virginia Tech interdisciplinary program in Translational Biology, Medicine, and Health.
 - Winner of the **Ezama Diploma of Honor** in Recognition of Distinguished Research in the Field of Addiction Medicine, 9th International Conference on Addiction Science, Tehran.
 - 2014 Research Grant from Iranian Cognitive Sciences and Technologies Council.
- 2012-2014 Grant for Graduate Studies from the Iranian National Foundation of Elites.
 - 2012 Ranked 1st in overall GPA among all 53 students of the 2008-2012 class of Computer Engineering (Software and Hardware) Program, Shiraz University.
 - 2012 7th Place in Iranian National Computer Engineering Olympiad for University Students.
 - 2010 10th Place in Asia Regional ACM Programming Contest, Tehran site, Iran.
 - 2007 Silver medal in National Student Chemistry Olympiad, Young Scholars Club(YSC), Tehran.
 - Selected for study in schools of National Organization for Development of Exceptional Talents (NODET) through an exam with less than 1% acceptance rate.

Talks and Workshops

- Sep. 2014 Presentation on Metacognition and Addiction, International Congress on Addiction Science, Tehran.
- May 2014 Lecture on *Modelling Decision Making in the Iowa Gambling Task*, Workshop on Cognitive Science and Cognitive Modeling, Institute for Research in Fundamental Sciences (IPM), Tehran.

Skills

- Languages Persian (native), English (advanced), Arabic (Intermediate)
- Programming MATLAB, PYTHON, R, C, C++, JAVA, ASSEMBLY, SQL
 - Web HTML, CSS, PHP, JavaScript

Test Scores

- Oct. 2014 Toefl iBT: 106/120; Reading(27/30), Listening(27/30), Speaking(26/30), Writing(26/30)
- Nov. 2015 GRE General, Computer-Based: Verbal (149; 41%), Quantitative (167; 94%), AW (4; 56%)